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Company: Palantir

Position (title of the project): Forward Deployed Software Engineer

Job Description: Forward Deployed Software Engineers (FDSEs) understand our customers’ greatest pain points and design end-to-end solutions to address them. FDSEs solicit constant feedback on their work from both customers and colleagues, improving our products over time with rapid iteration cycles.

FDSEs deploy groundbreaking technical solutions to solve our customers' hardest problems. Projects often start with a nebulous question like “Why are we losing customers?” or “How can we more effectively identify instances of money laundering?” FDSEs lead the way in developing a solution, from high-level system design and prototyping to application development and data integration. As an FDSE, you leverage everything around you: Palantir products, open source technologies[palantir.github.io], and anything you and your team can build to drive real impact.

You work with customers around the globe, where you gain rare insight into the world’s most important industries and institutions. We help our customers detect insider trading, improve disaster relief, fight healthcare fraud, and more. Each mission presents different challenges, from the regulatory environment to the nature of the data to the user population. You will work to accommodate all aspects of an environment to drive real technical outcomes for our customers.

Technologies we use:
- Core Palantir products provide the foundations for our deployments.
- Custom applications built on top of core Palantir platforms.
- Postgres, Cassandra, Hadoop, and Spark for distributed data storage and parallel computing.
- Java and Groovy for our back-end applications and data integration tools.
- Typescript, React, Leaflet, and d3 for our web technologies.
- Python for data processing and analysis.
- Palantir cloud infrastructure based on AWS EC2 and S3.

Requirements:
- Strong engineering background, preferred in fields such as Computer Science, Mathematics, Software Engineering, Physics.
- Familiarity with data structures, storage systems, cloud infrastructure, front-end frameworks, and other technical tools.
- Understanding of how technical decisions impact the user of what you’re building.
- Proficiency with programming languages such as Java, C++, Python, JavaScript, or similar languages.
- Ability to work effectively in teams of technical and non-technical individuals.
- Skill and comfort working in a rapidly changing environment with dynamic objectives and iteration with users.
- Demonstrated ability to continuously learn, work independently, and make decisions with minimal supervision.
- Willingness and interest to travel as needed.
- Technical work experience

**Students (undergraduates or MSc/PhD students):** Undergraduate and Masters students who are the year before their final year, willing to accept an offer for when they graduate

**Contact Details:** Israel@palantir.com → only English CV’s will be processed. Please only apply
Microsoft

Data Science Summer Internship at Microsoft- Windows Cyber Defense

Company: Microsoft

Position (title of the project): Data Science Summer Internship at Microsoft- Windows Cyber Defense

Job Description:

ENDLESS DATA - Peta-bytes of real-world security data from thousands of end-points to analyze.

REAL-WORLD DATA SCIENCE - Join forces with our applied researches for a 3 months data science project.

YOUR OWN “BUDDY” - Work side by side with a Microsoft’s engineer, which will mentor and guide you through the summer.

GET A FEEL FOR HOW IT’S LIKE - Apply your skills and show your knowledge in a fully productized environment, getting a feel for how it’s like to develop for the world.

Are you interested in radically improving the security of Microsoft's products? Do you want to work on the Intelligent Security Graph and new security products? Windows Defender Advanced Threat Protection (WDATP) is an exciting new product that helps enterprise organizations detect, investigate, and respond to advanced and targeted attacks on their networks.

We are searching for strong self-driven students in their Ph.D. or second year of MA, experienced with Data Science, for a unique and exclusive summer internship with us on the WDATP Research Team.

Our team has a deep understanding of the techniques attackers use to infiltrate enterprise networks and powers the detections behind the WDATP product.

Our research lab innovates in new approaches for detecting these techniques and works with Windows teams to source the needed signals.

If you are a passionate and technically strong data scientist and want to spend this summer doing something unique – apply today for our summer internship.

Requirements:

- BA in Computer Science, Mathematics or Engineering
- 2nd year in MA (or at any stage of a Ph.D.), in the field of Data Science or Machine Learning

Apply for this position:

https://microsoft.recsolu.com/external/requisitions/NgstE8PMKogCiPbWXGg45Q
Company: Elbit System LTD, Aerospace Division, Training and Simulation Group.

Position (title of the project): Simulation & Simulator System Developer

Location: Poleg Industrial Area, Netanya, Israel

Job Description: Elbit System Training & Simulation group develop and integrate complex training systems which are used by customers in Israel and abroad to train personnel or troops, in various levels and professional fields, for instance, driving training, weapon operation training, flight training, tactical decision making training, etc.

We develop and integrate the systems’ subcomponents: UI, operational sub-systems simulation, simulation of virtual entities in a virtual arena as well as the interactions between them, 3D visualization of the virtual arena, etc.

This is an opportunity to join a professional, fascinating and dynamic development environment. Most of the development is done using C++ or C#, Object Oriented Programming in Real-time & Soft Real-time environments. We work mainly on Window, Linux, and VxWorks OSs.

Requirements:
- Software development and design skills
- Object oriented design understanding
- An advantage - C++ programming experience
- An advantage - TCP/UDP knowledge

Students: Undergraduates students with at least 1 more studying year

Contact Details: Gali Golomb, Gali.Golomb@elbitsystems.com

Have you ever dreamt about being a pilot? We can give you a glimpse of this experience.

Company: Elbit System LTD, Aerospace Division

Position (title of the project): Have you ever dreamt about being a pilot? We can give you a glimpse of this experience.

Location: Haifa

Job Description: Aerospace Division in Elbit Systems is looking for software computer students for a variety of jobs in the field of RT/Embedded.
The software group specialized in developing end aviation systems.
The work is composed of activities such as coding, interfacing with external systems, 2D and 3D graphics, developing algorithms, integration and more.

Requirements:
- System view
- Working with complicated systems
- Working with dynamic work environment

Students: graduate students or undergraduates in the final stages of their studies

Contact Details:
Gali.Golomb@elbitsystems.com
Inbal.shirak@elbitsystems.com
IBM

Summer Intern at Cloud Architectures and Networking group, working on Cloud-Scale Load-Balancing

A Load-Balancer (LB) is a fundamental network component for scalable service architectures that dispatches client requests among multiple service nodes. In cloud scale applications, the rate of client requests arrival might be very high; and, since all requests go through the LB, designing a SW-based LB that can handle the load is a real challenge. The goal of this internship is to investigate a novel advanced ultra-scalable LB design idea and show its feasibility and value through concrete design, implementation, and analysis. The outcome of this research has practical implications and can be integrated into our group’s efforts in this domain (including our open source contributions). This is an opportunity to combine advanced algorithmic ideas with good engineering to solve a real-life problem.

We offer the opportunity to work with our Cloud Networking team of researchers on state-of-the-art practical technologies. This is an exploratory research project with the expected outcomes of a scientific publication, as well as a proof-of-concept for future solutions.

Required skills: A graduate student with good research and self-learning skills, programming skills (primarily in C and python), and background in networking and distributed algorithms.

Full/part time position: Summer internship.

Contact Details: Michalsh@il.ibm.com

IBM

Summer Intern at Cloud Architectures and Networking group, researching cloud services interaction from social networks perspective

Cloud scale data centers run multitude of applications and services that belong to different tenants, are composed of multiple communicating components, and have very dynamic behaviors. Moreover, these applications and services interact with each other, sometimes in an ad-hoc manner, as service clients discover service providers on the fly. The goal of this research is to investigate service-to-service communication patterns, from social networks perspective, with a goal to discover patterns and trends and bring about useful insights to service creators and operators, as well as to cloud providers and operators. This research will involve data collection, analysis, and visualization, and, if successful, will result both in practical addition to operational analytics toolset we develop and in joint scientific
publication. This is an opportunity to take part in an exploratory research, to raise questions and seek answers for them, under supervision and guidance of seasoned Cloud Networking researchers.

Required skills: A graduate student with good research and self-learning skills, programming skills, and background in computer networking, social networks, and data analytics.

Full/part time position: Summer internship.

Contact Details: Michalsh@il.ibm.com

IBM

**Learning to synthesize realistic (big) data for training Deep Learning algorithms**

Our Cognitive Vision and Augmented Reality (CVAR) team conducts CV and AR research for industrial applications, such as field technician support, specializing in Machine Vision, Deep Learning, and 3D Vision fields. The current methods of choice for solving Object Detection, Recognition and Analysis problems in images and videos are based on deep Convolutional Neural Networks (CNNs), which in turn require massive amounts of real annotated examples to train effectively. Although other methods exist that allow somewhat reducing the training costs of CNNs, in this work we would like to take the data synthesis approach – learn a generative model for the visual data of interest and use it to train CNNs that would be competitive in performance to ones trained using massive amounts of real data. Developing an effective method such as described will allow us not only to overcome the annotated data requirement limitation, but also to improve performance of the various existing data augmentation techniques increasing accuracy in cases when sufficient training data is available.

**Required skills:**

- Strong analytical skills
- Independent, self-learner
- Background in Computer Vision and Deep Learning
  - (proven record in DL – advantage)
- Programming experience in Matlab
  - (programming experience in C++ – advantage)
- Familiarity with at least one of the common DL platforms:
  - Caffe / Tensorflow / Torch / Matconvnet
  - (familiarity with Caffe – advantage)

**Full/part time position:** Summer internship.
IBM

Researcher in the Video and GIS Analytics group

The Video and GIS Analytics group – part of the Multimedia Analytics department at IBM Research – specializes in advanced video technologies. This unique group focuses on novel approaches for information overload and technologies in the areas of video analytics and computer vision, real-time rich-content streaming and management, video communication frameworks and geo-spatial situational awareness.

The group develops a scalable framework for real-time connectivity, as well as a platform for off-line rich-media tagging search & retrieval of archived rich media assets.

In the area of video analytics, our group conducts research and develops novel computer vision algorithms (also using machine learning tools) for various problems such:

- Scene text detection and recognition in natural videos and images
- Video scene detection
- Visual recognition, Anomaly detection and Scene understanding.

The goal of the project is to develop and implement novel algorithms for solving various computer vision problems related to video (such as the ones mentioned above), with a special emphasis on robustness and efficiency.

We Offer: An opportunity to work and conduct high-quality research with a leading research group in the area of video analytics and computer vision, on a topic that is on the cutting edge of research and technology.

Required Skills: Graduate student with good research and self-learning skills, as well as with background in image and video processing, and preferably also in computer vision and machine learning. Good programming skills in MATLAB and C++ are required (prior acquaintance with OpenCV is a plus).

Full/part time position: Summer internship.

Contact Details: Michalsh@il.ibm.com

IBM

Machine Learning Research

In our team we develop state-of-the-art technology for chatbots and chatbot construction. When constructing a chatbot, some preliminary data collection is usually required. Once experience with real users is gained, a new source of information emerges – existing conversations.
**Project Description:** We offer two research projects in machine learning (including deep learning) and text analytics. In this project we would like to develop a systematic method and algorithms for collecting new user utterances from existing conversations. More specifically, from those situations in a conversation where the user is misunderstood and has to rephrase her words. In such cases, new utterances can be identified and added to the system so as to improve its understanding. The main challenge, however, is ensuring that we do not pollute the system with inaccurate and erroneous utterances, which may quickly deteriorate the chatbot’s accuracy.

As part of the project, the intern is expected to conduct a literature survey, devise a comprehensive solution for the task at hand, develop and implement the relevant algorithms (text analytics, machine learning), implement a testing framework, and conduct experiments.

**We offer:** We offer two exploratory research projects possibly leading to scientific publications, in addition to participating in developing novel solutions with a clear productization roadmap.

**Skills:**
- Strong analytical skills
- Independent, self-learner
- Background in computer science / related disciplines
- Proficiency and hands-on experience in machine learning or text analytics
- Knowledge in deep learning and experience in TensorFlow is an advantage

**Full/part time position:** Summer internship.

**Contact Details:** Michalsh@il.ibm.com

**IBM**

**Debating Technologies Group**

Do you want to influence how computers interact with people using artificial intelligence? Are you interested in developing new ways of teaching computers to reason and argue using Watson technologies?

Our team is creating technologies that will help humans reason, make decisions, or persuade others. These abilities have always been considered exclusive to humans -- until now!

**Project description:** While Watson demonstrated impressive text analytics, it is still confined to answer factual questions where typically there is a right or wrong answer. However, most of the questions that we ask in life are more complex and are influenced by biases and different points of view. For example: "Should we ban smoking?", "Should I rent an
apartment or buy one?", "Should IBM make a partnership with Apple?". IBM Debating Technologies is a project which aims to address such scenarios. At a very high level, we are developing a system and a set of tools, which will assist humans in situations where debate and reasoning is required. The system, given a topic under consideration, generates arguments which either support or contest the topic. A demonstration of initial capabilities can be seen here (starting around minute 45):
https://www.youtube.com/watch?feature=player_embedded&v=6fjOtAzICzw

**We offer:** An opportunity to be part of an interdisciplinary, global team, working on a cutting edge technology which is highly exploratory.

**Skills:**
- Proven background in natural language processing and/or machine learning
- Strong hands-on programming experience; Java is an advantage.

**Full/part time position:** Summer internship.

**Contact Details:** Michalsh@il.ibm.com

**IBM**

**Advanced topic modelling of chat**

Information overload is ‘Cognitive Diabetes’, says Slack’s CEO. Indeed, recent years have witnessed the unprecedented growth of social group chat usage characterized by an ‘always on’ nature, making it hard for users to catch-up; especially after logging off for a certain amount of time. Therefore, there is an urgent need to understand team conversations. This includes handling discussion thread disentanglement, and methods to explore conversation threads.

This research project is aimed at:

1) Research and create a unified model for topical segmentation of group-chat feed accounting for chat characteristics as text sparsity and social collaboration patterns.

2) Apply model as a chat-bot / service in IBM Watson Workspace group-chat.

**Required skills:**

- Independent, self-learner
- Good programming skills (preferably in Python / Scala)
- Proficiency and hands-on experience in machine learning
- Background in NLP and specifically graphical topic modelling is an advantage

**Full/part time position:** Summer internship.
Analysis of System Security

Job description: Engage, under supervision of IBM researchers, in security analysis of complex systems, with the goals of (1) identifying how sophisticated attackers might exploit their vulnerabilities in intricate ways and modify their intended behavior, and (2) developing countermeasures to prevent/isolate the limit the effect of those exploits.

Required skills:
1. Excellent programming skills.
2. Prior experience in computer security.
3. Hands-on experience with static/dynamic code analysis and debugging tools.
4. Expertise in reverse engineering and malware analysis is an advantage.
5. Excellent interpersonal, written, and verbal communication skills.

Full/part time position: Summer internship.

Contact Details: Michalsh@il.ibm.com

IBM

Intern for the Machine Learning for Healthcare research team

Are you passionate about improving health? Are you passionate about the trending methods of machine learning and causal inference, deep learning, temporal modeling, reinforcement learning and transfer learning? If so, IBM machine learning research team provide such opportunities for you!

The Machine Learning for healthcare team in IBM Research is focused on developing novel machine learning methods to analyze a wide variety of real data in the healthcare and life sciences domains.

As a growing research team, our mission is to create world class machine learning solutions for our clients.

we look for interns with background and research experience in machine learning, who are
passionate to conduct cutting-edge research on challenging and trending open questions in the

**Requirements:**
interns with background and research experience in machine learning

**Full/part time position:** Summer internship.

**Contact Details:** Michalsh@il.ibm.com
Marvell

Infrastructure Software development

**Company:** Marvell

Position (title of the project): Infrastructure Software development

**Job Description:** We are looking for a talented student to join highly motivated Automation Test Engineering team.

The team is responsible for automating processes and technologies developed in Marvell Company.

In your daily work you will be involved in development of High-Tech technologies and interact with Software, Hardware and Chip Emulation teams, gather their requirements and implement it using Python code.

You will be responsible for converting requirements into python code that automates the testing process and implement functionality into shared logical infrastructure.

**Requirements:** Software / Computer Engineer student, with interest in development of Automation infrastructure/framework. Highly skilled, independent and motivated student.

Basic Knowledge in Python language programming.

Undergraduates in Computer Sciences. Full Time for 3 month.

**Location:** Petach Tikva

**Contact Details:** olegs@marvell.com
MELLANOX

Optical Data Centers Novel Traffic Scheduling

With the ever increasing requirements for Data Center Bandwidth, research of Optical Data Centers Networks (ODCNs) has become one of the most acute challenges of the networks industry and academia. Amongst the most challenging problems in this field is scheduling of optical circuits.

The aim of this internship is to suggest and evaluate new schemes for ODCN circuits scheduling and their use. Several novel ideas we have been internally suggested but require next level of details, modeling and evaluations. Moreover, new approaches are also highly looked-for.

Successful internship will result in providing innovation for future products, writing academic paper and/or patent.

**Required Skills:** C++ programming, Networks course 1, Data Models, Algorithms,

**Advantages:** Experience in research, knowledge in Optical Data Centers.

Full time job during 3 months of summer 2018

Contact: eitan@mellanox.com

MELLANOX

Host Based Admission Control Transforming Multi Level Slimmed Fat Trees into a Virtual Single Switch

Cell based switching systems claim of fame is to provide a crossbar like behavior for a system built with discrete NICs and switch elements. It was successfully demonstrated for the case of over provisioned 2 level fat-trees that indeed it is possible to maintain crossbar behavior in the cost of additional latency and buffers at the NICs.

The aim of this internship is to extend the idea of “distributed crossbar” and apply it to an arbitrary number of levels, packet switched, and under provisioned fat-trees. We would like to suggest a novel NIC based algorithm that is capable to provide the maximal performance
for this system. The work should provide theoretical bounds, algorithms, limitations and evaluation of the proposed ideas.

Successful internship will result in providing innovation for future products, writing academic paper and/or patent.

**Required Skills:** C++ programming, Networks course 1, Data Models, Algorithms,

**Advantages:** Experience in research, deep understanding of TCP Congestion Control

**Full time job during 3 months of summer 2018**

**Contact:** eitan@mellanox.com

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**MELLANOX**

**Large Scale Telemetry**

The need to perform monitoring of large systems to provide real time alerting for various faults and performance degradation events, is well recognized in both the HPC and the Hyperscale data centers environments. Mellanox devices provide unique features that directly support that need.

During this internship you will build a large scale simulation environment that mimic the Mellanox devices behavior, configure them and show the scalability of the monitoring system. A secondary effort that is also being considered is the implementation of the control mechanisms and the software involved in activating these features in the devices.

Successful internship focused on simulation will result in performing large scale simulations of the monitoring system under load, and writing academic paper and/or patent. Focusing on the device mechanisms will allow the intern to learn about the monitoring capabilities, the configuration protocols and the software involved.

**Required Skills:** C/C++ programming, Data Models, Algorithms,

**Advantages:** Fast learning and enthusiasm about new technologies.

**Full time job during 3 months of summer 2018**

**Contact:** eitan@mellanox.com
Device Level Congestion Control

During the last few years, the need for Hyperscale Data Center new Congestion Control algorithms has caught the attention of many of the networking researches. However, with the rise in network bandwidth, and consequently the exponential increase of packet rate, programming these algorithms in the host memory becomes too slow. In HotNet 2017 conference several papers discuss the need to smarter combination of hardware and software to keep up with the above challenge. Mellanox devices have kept up with this challenge by providing programmable congestion control scheme.

In this internship you will learn about that exciting new technology, program and evaluate (by simulation and measurement) several known congestion control algorithms. The key learnings of that study will influence the next generation Mellanox hardware, and possibly be published as a paper in coming Networking workshop or conference.

**Required Skills:** C++ programming, Networks course 1, Data Models, Algorithms,

**Advantages:** Experience in research, deep understanding of TCP Congestion Control

Full time job during 3 months of summer 2018

**Contact:** eitan@mellanox.com

MELLANOX

Network Sensitive Job Scheduling

As the importance of parallel applications keeps rising, so grows the demand of intra data center bandwidth. Consequently Network aware Jobs Scheduling algorithms are gaining more and more attention. In Mellanox we have developed several scheduling algorithms to deal with Job Isolation for runtime predictability and also for being able to guarantee of network resources.

In this internship you will implement extensions to the Mellanox algorithms, simulate their use on real large clusters and evaluate their effectiveness. A successful completion of the internship should lead to a publication material to be published in relevant conference or workshop.

**Required Skills:** C++ programming, Networks course 1, Data Models, Algorithms,
Advantages: Experience in research, Understanding Job Scheduling concepts

Full time job during 3 months of summer 2018

Contact: eitan@mellanox.com
Check Point

Cyber Data Scientist

**Position (title of the project):** Cyber Data Scientist

**For graduate students / undergraduate students:** both

**Job description:** “Reports that say that something hasn't happened are always interesting to me, because as we know, there are known knowns; there are things we know we know. We also know there are known unknowns; that is to say we know there are some things we do not know. However, there are also unknown unknowns – the ones we don't know we don't know. And if one looks throughout the history of our country and other free countries, it is the latter category that tends to be the difficult ones.”

(Donald Rumsfeld)

This internship position would involve both research and development in order to uncover the known unknowns and the unknown unknowns of the cyber-attacks in the wild.

**Requirements:**
- Python (pandas & scikit-learn experience is a great plus)
- Academic background in machine learning/data mining
- SQL knowledge
- Data lover – a must

**Full/part time position:** Full

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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Check Point

**Push notification support in User Check**

**Position:** Push notification support in User Check

**For graduate students / undergraduate students:** Both

**Job description:** add User Check the ability to push notifications via Chrome push notifications API.

**Requirements:** knowledge in C++ and JavaScript.

**Full/part time position:** part time

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com
Check Point

**Multi Factor Authentication Web Service (First phase Google Authenticator support)**

**Position:** Multi Factor Authentication Web Service (First phase Google Authenticator support)

**For graduate students / undergraduate students:** Both

**Job description:** Have centralized resource providing Multi Factor authentication in Check Point I/S. First phase would be the implementation of google TOPT Authentication.

**Requirements:** knowledge in C++, Web API and, some front end

**Full/part time position:** Preferably full time.

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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Check Point

**Integration with SaaS applications as SAML IDP**

**Position:** Integration with SaaS applications as SAML IDP

**For graduate students / undergraduate students:** undergraduate

**Job description:** add additional SaaS applications support to Check Point IDP offering

**Requirements:** knowledge in C++, Web

**Full/part time position:** part time

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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Check Point

**Gaia Rest API**

**Position (title of the project):** Gaia Rest API

**For graduate students / undergraduate students:** Both

**Job description:** Full stack Rest API developer

Develop rest API client infrastructures both in CPP in JS.

Develop Python infrastructure to covert different formats to JSON.

Integrate the above infrastructure over varies checkpoint modules.

**Requirements:**

- Development on Linux environment
- C/C++
- Client server model
- Networking - TCP/IP and HTTP
- Advantage – Python/JS

Full/part time position: Both

HR contact: Yarden Hershkovich, yardenh@checkpoint.com

Check Point

Benign hash tracker

Position (title of the project): Benign hash tracker

For graduate students / undergraduate students: undergraduate

Job description: collect hash queries with benign results from gateways in a database table for tracking malware spread patterns when malware hashes transition from unknown to known.

Requirements: Java

Full/part time position: full/part time

HR contact: Yarden Hershkovich, yardenh@checkpoint.com

Check Point

Application Control for Check Point Services

Position (title of the project): Application Control for Check Point Services

For graduate students / undergraduate students: undergraduate or graduate

Job description: Manually research a Check Point service and enumerate API “applications”. Then create application signatures for format/content validation. Group API calls into services that can be assigned to access roles. Automate this process by reading logs and automatically creating the signatures.

Requirements: Java, networking, RESTful APIs

Full/part time position: full time

HR contact: Yarden Hershkovich, yardenh@checkpoint.com
Check Point

**Mirroring traffic for passive detection on Cyber Sentry**

**Position (title of the project):** Mirroring traffic for passive detection on Cyber Sentry

**For graduate students / undergraduate students:** graduate

**Job description:** Program built-in switch on Check Point SMB appliance to passively mirror network traffic to the onboard CPU instead of forwarding it through the CPU inline. Auto-configure plug and play passive operation when connected to a mirror port. Provide monitoring and configuration interfaces for this feature.

**Requirements:** C/C++, microprocessor lab

**Full/part time position:** full/part time

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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Check Point

**Sentry Plug and Play UI**

**Position (title of the project):** Sentry Plug and Play UI

**For graduate students / undergraduate students:** undergraduate

**Job description:** Develop user interfaces that present sentry status from power up through fully operational, and allow remote monitoring and management of the sentry.

**Requirements:** C/C++, networking experience

**Full/part time position:** full time

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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Check Point

**MDM integrator into SandBlast Mobile**

**Position (title of the project):** MDM integrator into SandBlast Mobile

**For graduate students / undergraduate students:** Both

**Job description:** We are looking for a person to be work on MDM integrations and feature development in our SandBlast Mobile product – client and server.

Mobile device management (MDM) is an industry term for the administration of mobile devices. MDM is usually implemented with the use of a third party product that has management features for particular vendors of mobile devices. SandBlast Mobile integrates
with 3rd party MDM vendors and we’re looking for a developer to take charge of maintaining and improving these integrations.

**Requirements:**
Student or graduate for BA/BSc in Computer Science from known university or equivalent experience from lead technological units
1 year of experience in object oriented software development
Python experience is a big advantage

**Full/part time position:** Full time preferred. Part time is possible (minimum 3 days a week)
**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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**Check Point**

**Check Point small medium business field assistants**

**Position (title of the project):** Check Point small medium business field assistants

**Graduate students / undergraduate students:** part time/full time

**Job description:** The developer will be responsible for (among the rest): Security level analysis - learn security capabilities and configurations of Check Point SMB gateway, understand best practices in security management and build up an algorithm for both recommendations and scoring
Diagnostic tools - Troubleshooting tools which recognize/analyze connectivity / network problems
Collectors for proactive support - Develop modules that collect data from gateways and send it to CP server for proactive support / statistics
Infrastructures for Automation - develop tools for automation which are unique for SMB GWs / local managed GWs.
Debugging tools - Develop API that automatically collects and send/upload the requested debug information per problem/module

**Requirements:** C++, Linux, Networking, security knowledge, data bases

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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**Check Point**

**Mobile Thread Detection Data Science Project**

**Position (title of the project):** Mobile Thread Detection Data Science Project

**For graduate students / undergraduate students:** Both
**Job description:** Checkpoint Mobile Threat Prevention (MTP, former Lacoon Mobile Security) is looking for an intern to join our Mobile Threat Detection Group.

Become a part of a world leading ensemble of mobile security experts, all committed to map, build and achieve the best catch rate in the industry of unknown mobile threats. Challenge yourself to learn and excel in a fast and ever changing cyber threat landscape.

Become part of the Mobile Threat Detection Data Science Team – which is responsible for improving our mobile threat detection by applying machine learning and data analysis techniques.

**Requirements:**

- Programming experience in Python.
- Experience in performing machine learning projects / or application of data analysis techniques to solve practical problems.

**PREFERRED QUALIFICATIONS:**

- Git work experience
- Familiarity with cyber security

**Full/part time position:** Full

**HR contact:** Yarden Hershkovich, yardenh@checkpoint.com

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**Check Point**

**Mobile applications similarity infrastructure**

**Position (title of the project):** Mobile applications similarity infrastructure

**For graduate students / undergraduate students:** Both

**Job description:** Checkpoint Mobile Threat Prevention (MTP, former Lacoon Mobile Security) is looking for an intern to join our Mobile Threat Detection Group.

Become a part of a world leading ensemble of mobile security experts, all committed to map, build and achieve the best catch rate in the industry of unknown mobile threats. Challenge yourself to learn and excel in a fast and ever changing cyber threat landscape.

Become a true mobile cyber detective, find & follow the basic most technical clues in order to find that elusive malware.

Become part of the ART (Analysis & Response Team) - taking responsibility for improving our malware detection.
You will lead are our efforts to advance our threat hunting capabilities by enhancing our similarity abilities, creating an infrastructure to map and enumerate the similarity between different samples in our huge db.

Requirements:
- Programming experience in Python or any other dynamic language
- Recommended:
- Git work experience
- Web framework experience

Full/part time position: Full

HR contact: Yarden Hershkovich, yardenh@checkpoint.com

Check Point

Scraping infrastructure

For graduate students / undergraduate students: Both

Job description: Checkpoint Mobile Threat Prevention (MTP, former Lacoon Mobile Security) is looking for an intern to join our Mobile Threat Detection Group.

Become a part of a world leading ensemble of mobile security experts, all committed to map, build and achieve the best catch rate in the industry of unknown mobile threats.

Challenge yourself to learn and excel in a fast and ever changing cyber threat landscape.

Become a true mobile cyber detective, find & follow the basic most technical clues in order to find that elusive malware.

Become part of the ART (Analysis & Response Team) - taking responsibility for improving our malware detection

You will lead are our efforts to advance our threat hunting capabilities by enhancing our scraping abilities, creating a generic infrastructure to scrape huge amounts of apps and data from multiple different sources.

Requirements:
- Programming experience in Python or any other dynamic language
- Recommended:
- Git work experience
- Web framework experience

Full/part time position: Full

HR contact: Yarden Hershkovich yardenh@checkpoint.com
Position (title of the project): SBM Data engineering projects involving large scale distributed feature extraction and distributed training of machine learning models

For graduate students / undergraduate students: Both

Job description: SBM Machine learning is being used in different areas in the mobile malware detection flow. In these projects, we are enabling our data science team to train high quality models using large set of raw data, in distributed fashion, both for extraction, training and validation.

Requirements:
- Python
- Experience in AWS Big Data services – advantage

Full/part time position: Full

HR contact: Yarden Hershkovich, yardenh@checkpoint.com