## Summer Internships for BSc Students, 2018

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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 ground breaking 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
- 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
Summer Trainee Engineering Program, STEP 2018

Please Note: STEP candidates must be available to work full-time from 6th August 2018 - 31st October 2018, and then part-time (minimum 2 days per week) from the 31st October 2018 to 31st December 2018, as part of this program.

To Apply:
https://www.google.com/about/careers/applications/packets/2f373ba7-1039-4b57-805d-10ddd94b7ce2/form

Applications are due by 14th February 2018 at 11:59pm GMT. Our team will review applications on a rolling basis and it’s in your best interests to apply early. All hiring will be completed by May 2018. Thank you for your patience while we consider your application.

Note: By applying to this position your application is automatically submitted to the following locations: Tel Aviv-Yafo, Israel; Haifa, Israel

Google aspires to be an organization that reflects the globally diverse audience that our search engine and tools serve. We believe that in addition to hiring the best talent, a diversity of perspectives, ideas and cultures leads to the creation of better products and services.

Google is invested in increasing the number of future computer scientists and software developers, particularly those who are historically underrepresented in the field. Many aspiring computer scientists could benefit from a program that bridges the gap between academic study and a professional internship. Google wants to inspire these students to continue in the field with such a program.

With this in mind, Google is pleased to announce that the 2018 STEP internships in Israel are now open to students who are graduating from their Computer Science (or related) degree in 2019. This program includes three main components: a software project, skills-based training, and professional development.

This program is open to all qualified university students and is committed to addressing diversity in our company and in the technology industry. Students who are a member of a group that is historically underrepresented in the technology industry are encouraged to apply, including women, ethnic minorities and students with disabilities.

This summer trainee program includes:

- **Software Project:** A software development project that you will work on with a team of Google Engineers and other STEP Interns.
• Skills-Based Training: Enhance your coding skills, and gain exposure to new tools and programming languages.

• Professional Development: Attend ongoing technical talks by senior Googlers. Additionally, learn how to enhance your resume, tackle technical interviews, and improve your presentation skills.

• Mentorship: Be matched with a Google Engineer, other than your manager, to guide you through your summer experience.

• Fun: Engage in social activities, community building and networking. Build relationships with your peers.

• Exposure: Gain a unique glimpse into applying your Computer Science studies in a professional environment.

Google is and always will be an engineering company. We hire people with a broad set of technical skills who are ready to tackle some of technology’s greatest challenges and make an impact on millions, if not billions, of users. At Google, engineers not only revolutionize search, they routinely work on massive scalability and storage solutions, large-scale applications and entirely new platforms for developers around the world. From AdWords to Chrome, Android to YouTube, Social to Local, Google engineers are changing the world one technological achievement after another.

**Responsibilities:**

• Research, conceive and develop software applications to extend and improve on Google’s product offering.

• Contribute to a wide variety of projects utilizing natural language processing, artificial intelligence, data compression, machine learning and search technologies.

• Collaborate on scalability issues involving access to massive amounts of data and information.

• Solve all problems that come your way.

**Qualifications:**

**Minimum qualifications:**

• Currently pursuing a Bachelor’s degree in Computer Science or a related technical field.

• Completed your second year of undergraduate studies by Summer 2018.

• Programming experience in either Java, C++ or Python.

**Preferred qualifications:**
• Experience in programming outside of your university course.
• Familiarity in one or more of the following areas: Databases and querying (e.g. SQL, MySQL, MapReduce, Hadoop), Front end development (e.g. HTML, JavaScript, CSS), Statistical analysis (e.g. R, Stata, SPSS, SAS).
• Interest and ability to learn other coding languages as needed.
Microsoft

Data Science Summer Internship at Microsoft - Windows Cyber Defense

Company: Microsoft, Data Science Summer Internship at Microsoft- Windows Cyber Defense

Position: 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:

- BSc in Computer Science, Mathematics or Engineering
Apply for this position:

https://microsoft.recsolu.com/external/requisitions/NgstE8PMKogCiPbWXGg45Q
**Elbit System**  
*Simulation & Simulator System Developer*

**Company:** Elbit System LTD, Aerospace Division, Training and Simulation Group.

**Position:** 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
- Undergraduates students with at least 1 more studying year

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

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**Elbit System**

*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
- Graduate students or undergraduates in the final stages of their studies

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

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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
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.

MELLANOX

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**: Cyber Data Scientist

**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

Check Point

Push notification support in User Check

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

**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)

**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

Check Point

**Integration with SaaS applications as SAML IDP**

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

**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

Check Point

**Gaia Rest API**

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

**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

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

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

**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

Check Point

Sentry Plug and Play UI

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

**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

Check Point

MDM integrator into SandBlast Mobile

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

**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

Check Point

Check Point small medium business field assistants

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

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
Check Point

**Static Code Analysis – Mobile Apps**

**Position (title of the project):** Static Code Analysis – Mobile Apps

**Job description:** Work with the team in charge of several of the detection engines of Check Point’s mobile threat prevention solution, SandBlast Mobile.

Our engines perform static code analysis of Android and iOS applications, looking for potentially malicious behavior such as sensitive information theft.

**Requirements:**
- Knowledge in Python – Big advantage
- Knowledge in Java - Advantage
- Experience in security – Advantage.

**Full/part time position:** Full

**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

**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

**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:**

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

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**Check Point**

**Scraping infrastructure**

**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.

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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

Check Point

SBM Data engineering projects involving large scale

Position (title of the project): SBM Data engineering projects involving large scale distributed feature extraction and distributed training of machine learning models

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