

Mail Senior Research Scientist / Princ Research Engineer

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JR0020149

It takes powerful technology to connect our brands and partners with an audience of nearly 900 million. Whether you're looking to write mobile app code, engineer the servers behind our massive ad tech stacks, or develop algorithms to help us process trillions of data points a day, what you do here will have a huge impact on our business—and the world. Want in?

About the Team

The Inbox Commerce Science team at Haifa is heading research in the field of Commerce and responsible for a number of strategic efforts including the extraction of commercial email items, such as receipts, shipments, invoices, deals, etc., as well the categorization and the recommendation of products and deals. This, with the mission to enable new shopping experiences across the consumer ecosystem, in products such as Yahoo Mail, Yahoo Shopping Hub and Yahoo Search. In terms of revenue, Inbox Commerce is a steeply accelerating initiative (2X QoQ), currently expected to surpass \$70M/Y. In addition, extracted email data is contributing \$100M annually in ad revenue.

The team has vast knowledge and expertise in turning huge amounts of user data into knowledge and applications using state-of-the-art techniques in machine learning and data science. It provides intellectual leadership and scientific acumen to the discussion of future products and services, and often facilitates Yahoo's academic collaboration by publishing its results in worldwide conferences.

About You

You love science and technology and want to use them to cheer up the daily experiences of hundreds of millions of people. You are a team player who will enjoy collaborating with a diverse, multinational, cross-disciplinary group of extremely talented people. You are not afraid to take risks, love experimenting with new ideas, and are capable of delivering under uncertainty. Finally, you are an excellent communicator, capable of abstracting complex solutions and presenting your work to internal partners as well as researchers in the academic community.

Required Skills

- M.Sc./Ph.D in Computer Science, Electrical Engineering or a related area with focus on data science, distributed systems, machine learning, or algorithms
- Solid design and implementation skills in Java, C++ or Python
- Interest and background in one of the following areas: Search, NLP, Deep Learning
- Good communication and presentation skills

For more information, feel free to contact Noa Avigdor-Elgrabli <noaa@yahooinc.com>

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Text Research - Research Scientist / Senior Research Engineer

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JR0018816

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The Yahoo Text Research team in Haifa is looking for applied scientists who are passionate about making a meaningful business impact that can be measured in millions of dollars. Our mission is to dramatically and consistently grow Yahoo's products by applying state-of-the-art scientific solutions to real-world problems. We push the science that powers Yahoo News, Yahoo Search, and Yahoo Mail, and influences hundreds of millions of users, with the help of a talented engineering team in Tel Aviv. The team focuses primarily on text-based systems, delving into topics such as machine learning, deep learning, natural language processing, language modeling, semantic representation, text generation, and text classification. We collaborate with many other teams across Yahoo to deploy our cutting-edge technology into products that further promote business values.

About the position:

Our research engineers and scientists are expected to tackle research challenges, apply scientific thinking and techniques to improve the performance and effectiveness of our products and solve problems for our users and advertisers by analyzing mountains of data. During a typical work cycle, you will come up with creative ideas that may become a new feature or product. You will gather offline evidence of the estimated impact of your initiative on the business. You will design and code a prototype and experiment with

it, both offline and online. If successful, you will productize your prototype and oversee it as it is ramped up and used to serve content to hundreds of millions of users each day. A common impact is an increase of many millions of dollars in yearly revenue. After you are done with all of this, you will do it all over again. If this sounds exciting to you, then we may be a good fit for each other. If this sounds intimidating to you, do not worry, we have some of the most talented applied scientists in the world who will guide you through the process.

Furthermore, you will have the opportunity to publish your work in top-tier scientific conferences, as well as submit patents, and give academic talks.

In addition to a competitive salary, yearly bonus, and company shares, you will enjoy many perks like daily sports classes, a generous meal budget, deluxe health insurance, extended parental leave, science and business trips abroad (when applicable), team and office events, and more.

Basic Qualifications

- Strong computer science foundations in algorithms and data structures and the ability to apply them to real-world problems with a keen eye for time and space efficiency
- Strong programming/engineering proficiency.
- Team player with strong communication and presentation skills
- Graduate degree (MSc or PhD) in Computer Science or other related science fields
- Ability to publish scientific papers and perform independent and collaborative research
- Experience with machine learning and big data analysis - a plus

Preferred Qualifications

- Proven track record of applying science to big data problems with measurable and dramatic business impact
- Proven track record of initiating and leading the above applied-science efforts
- 4+ years of related work experience as an MSc or 2+ years of experience as a PhD

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Research Scientist / Senior Research Engineer

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JR0019276

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Haifa (Native) Ad Science Job Description

The Yahoo! Native Advertising Science team in Haifa is looking for applied scientists who are passionate about making a significant business impact that can be measured in millions of dollars. Our mission is growing one of Yahoo's biggest products dramatically and consistently by applying state-of-the-art scientific solutions to real-world problems. Together with a talented engineering team in Tel Aviv, we propel the science that drives native advertising across the Yahoo ecosystem and beyonds it, in products such as Yahoo News, Finance, Sports and Mail, and impacts hundreds of millions of users. The team members are responsible for multiple initiatives in the domains of ad targeting and ranking, bid optimization, budget pacing and ad format improvement for native advertising. These have delivered and continue to provide tremendous impact on publisher revenue, advertiser satisfaction and user experience, as part of this company's strategic effort that is largely based in Israel.

About the position:

Our research engineers and scientists are expected to tackle research challenges, apply scientific thinking and techniques to improve the performance and effectiveness of our products, and solve problems for our users and advertisers by analyzing mountains of data. During a typical work cycle, you will come up with creative ideas that may become a new feature or product. You will gather offline evidence of the estimated impact of

your initiative on the business. You will design and code a prototype and experiment with it, both offline and online. If successful, you will productize your prototype and oversee it as it is ramped up and used to serve content to hundreds of millions of users each day. A common impact is an increase of many millions of dollars to yearly revenue. After you are done with all of this, you will do it all over again. If this sounds exciting to you, then we may be a good fit for each other. If this sounds intimidating to you, not to worry, we have some of the most talented applied scientists in the world who will guide you through the process.

Furthermore, you will have the opportunity to publish your work in top-tier scientific conferences, as well as to submit patents and to give academic talks.

In addition to a competitive salary, yearly bonus, and company shares, you will enjoy many perks like daily sports classes, a generous meal budget, deluxe health insurance, extended parental leave, science and business trips abroad (when applicable), team and office events, and more.

Basic Qualifications

- Strong computer science foundations in algorithms and data structures and the ability to apply them to real-world problems with a keen eye for time and space efficiency
- Strong programming/engineering proficiency. Experience in Java - a plus
- Team player with strong communication and presentation skills
- Graduate degree (MS.c or PhD) in Computer Science or other related science field
- Ability to publish scientific papers and perform independent and collaborative research
- Experience with machine learning and big data analysis - a plus

Preferred Qualifications

- Proven track record of applying science to big data problems with measurable and dramatic business impact
- Proven track record of initiating and leading the above applied-science efforts
- 4+ years of related work experience as an MS.c or 2+ years of experience as a PhD

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Research Engineer

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JR0017256

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The scalable systems research team specializes in incepting and building innovative fast reliable solutions to mitigate scalability challenges and deliver significant performance improvements in Yahoo's platforms and products.

The team applies unique expertise in distributed systems, key-value stores, analytics data platforms, concurrency, high availability, and deep understanding of search technologies, recommendation systems, and machine learning tools. We have vast experience in driving initiatives into Apache open source projects: Phoenix, HBase, DataSketches to name but a few. We are always keen on optimizing performance, resource utilization, cost, and revenue.

Responsibilities:

The responsibilities of the current job position is to research and build a persistent cache library. A hybrid cache that leverages persistent memory in addition to DRAM. This hybrid cache aims to achieve a fast warm start after recovery and utilize available persistent memory hardware to increase throughput while providing access latency similar to a DRAM-only cache.

The long-term target is accelerating the use of Sherpa ordered indexes. After building a stand-alone persistent cache it will be integrated into the existing architecture of Sherpa hosts, as a service providing efficient caching. Later it can be considered as a persistent caching service also for other distributed platforms.

Job Functions:

- Play a critical role in the group as a creative research engineer.
- Implement possible solutions, evaluate outcomes, and update research direction according to business goals and constraints.
- Work closely with engineers to develop prototypes and transfer research to new products, new processes, and/or new business areas.
- Follow a project through its entire lifetime from problem formulation to solution delivery.
- Actively participate in the academic community and publish high quality research.
- Collaborate with academics and students from top universities on novel research ideas.

Requirements:

- 2+ years academic or industrial experience in areas of interest listed above
- MS or Ph.D. in Distributed systems, Parallel computing, Networks, Scalable ML systems, or a related field.
- Publications in top-tier conferences and journals in related fields (e.g., SOSP, VLDB, PPOPP, ATC, FAST).
- Demonstrated expertise and desire to work hands-on in building and developing scalable and big data platforms.
- Strong algorithmic problem solving and software development skills (Java, Python, C/C++, etc.).
- Excellent communication & writing skills.

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