Daniel Laufer

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Technical Skills

Programming Languages/Frameworks/Libraries: C, C++, Python, Java, SQL, PostgreSQL, React, Redux, JavaScript, Node.js, Express, MIPS Assembly, Django REST Framework, Python's Pandas Library, HTML, CSS.

Cloud/OS/Tools: AWS, Google Cloud, Linux/Unix, Docker, Firebase, Git/GitHub, GitHub Actions, Travis CI, Jira.

Certifications: AWS Certified Cloud Practitioner.

Education

University of Toronto **Sept. 2019 - Present**
Honours Bachelor of Science (HBSc).
Specialization in Computer Science and Information Security, Minor in Mathematics.
3^{rd} year, 3.9/4.0 CGPA (89% average).

Enrolled in the *PEY Co-op* program at the University of Toronto, currently seeking a 12-16 month co-op/internship.

Relevant Coursework Introduction to Software Engineering, Introduction to Databases, Data Structures and Analysis, Software Design (Java, Design Patterns, Git), Principles of Computer Networks, Systems Programming (Linux, Bash, C), Computational Complexity and Computability.

Experience

Computer Science Teaching Assistant **Jan. 2021 - Present**
University of Toronto

- Supported professors in lecture sections (each containing 160+ students) by leading in-class activities and answering students' questions. Received positive feedback from professors and students.
- Graded hundreds of assignment/exam submissions per term under tight deadlines and provided constructive feedback to students to improve their computer science skills.
- Created and graded weekly tutorial content and led tutorial sections each containing 30+ students.
- Courses: CSC207 (Software Design - Java, design Patterns, object-oriented-design, unit testing, etc.) during Fall 2022, CSC209 (Systems Programming - Linux, C, Concurrency, etc.) during winter 2022, and summer 2022, CSC148 (Introduction to Computer Science - Python, Object-oriented-programming, data structures, etc.) during winter 2021, winter 2022.

Google Developer Student Club Technical and Workshop Lead **Aug. 2021 - Aug. 2022**
Google Developer Student Club at the University of Toronto

- Hosted biweekly technical workshops attended by 100+ UofT students on topics like React, Docker, AWS, etc.
- Led professional development events such as resume reviews and mock technical interviews regularly for students.
- Empowered students to expand their knowledge in technology and build solutions for their local communities.

Full Stack Software Developer Intern **Sep. 2021 - Dec. 2021**
Wealthscope

- Developed front-end applications with *React and Redux;* developing back-end APIs using the *Django REST Framework.*
- Created a tool that allows users to compare their investment portfolios (consisting of stocks, ETFs, crypto, etc) to determine how various statistics differ between them (including annualized returns, total risk, fees, etc).
- Created the new 'Retirement Blueprint' tool that guides users through creating personalized investment and saving plans to reach their financial goals.
- Created CI/CD pipelines using GitHub Actions to automatically test and deploy code changes to AWS EC2 instances.
- *Technologies used:* React, Redux, Django, Django REST Framework, Python, Pandas, AWS, Docker, PostgreSQL, Jira.

Research Assistant **Sep. 2021 - Oct. 2021**
Schulich School of Business, York University

- Developed software and used various Google Cloud services to collect 31 million comments made by Reddit users on the subreddit 'Wall Street Bets' during the years 2019-2021.
- *Technologies used:* Docker, Google Cloud's Compute Engine, Google Cloud's Cloud Storage, Python, Pandas.

Projects

StudyTogether | *React, Redux, MongoDB, Google Cloud, Socket.IO, Jira, Agile Development (SCRUM)*

- Collaborated with four other UofT students to develop a web app that facilitates the process of forming study groups at universities across Canada.
- Users can easily form meaningful connections with other students and form study groups that others can join.

Kubernetes Flashcards | *Microservices, Kubernetes, CI/CD, Docker, AWS, Google Cloud, PostgreSQL, Node.js, React*

- Developed a web application that allows users to create and share personalized collections of flashcards to assist themselves and others in studying for assessments, learning new languages, and much more.

Zoomer Rideshare | *Microservice architecture, Java, Maven, PostgreSQL, MongoDB, Neo4j, Docker, Python*

* Created a rideshare app that allows you to request rides, matching you with drivers in the nearby area to safely take you to your destination.

Interactive Pathfinding Algorithm Visualizer | *Python, PyGame*

* Developed an interactive visualization of several pathfinding algorithms including 'A*' and 'Dijkstra's Algorithm'

The Textbook Exchanger | *React, Firebase, Firestore, Redux, JavaScript, HTML/CSS, Bootstrap*

* Created an online marketplace that facilitates the process of purchasing and selling textbooks among students.
* Users can create personalized accounts with which they can make postings about textbooks they intend to sell.
* Created a RESTful API to perform CRUD operations on data and connected it to a front-end made with React & Redux.

Multi-network Router | *Python, Mininet*

* Created a functional multi-network router that is capable of running widely used intra-AS routing algorithms like OSPF and RIP.

HTTP Server | C Programming Language

* Developed a fully-functional HTTP server that is capable of serving web content to multiple clients simultaneously.
* Added support for persistent connections and pipelined HTTP requests.

XMODEM File Server | C Programming Language

* Created a server, written using the C programming language, capable of transferring files to multiple clients simultaneously using the XMODEM file transfer protocol.

Awards and Achievements

* University of Toronto Dean's List Scholar **Jul. 2022**
* University of Toronto Mathematical and Computational Sciences 2021-2022 Honour Roll **May. 2022**
* University of Toronto Mathematical and Computational Sciences 2020-2021 Honour Roll **May. 2021**
* University of Toronto Dean's List Scholar **Sep. 2020**
* University of Toronto Scholar **May 2019**
* ECOO Programming Competition Semifinalist **Apr. 2019**
* Finished first place in my school board at the Halton Skills Competition for Robotics **Apr. 2019**
* Ranked in the top 25% of all contestants at the Canadian Computing Competition **Feb. 2018**

Hobbies and Interests

Tennis, running/jogging, spending time outdoors, watching crime/horror/sci-fi shows, and occasionally playing various video games. I also love writing code in my free time to make projects which I find fun/interesting and learning new technologies/concepts/languages whenever I can!