Daniel Laufer

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Education

University of Toronto **Sept. 2019 - Present**

Specializing in computer science and information security; minoring in mathematics

Honours Bachelor of Science; currently in third year and expecting graduation on June 2024

3.9/4.0 CGPA (88% average)

Experience

Full Stack Software Developer **Sep. 2021 - Present**

Wealthscope

* Developing front-end applications with React and Redux; developing back-end APIs using the Django REST Framework
* Creating a tool to allow 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 determines an individual's required retirement target wealth and creates an investment plan to assist them in obtaining it
* Created CI/CD pipelines using GitHub Actions to automatically deploy code changes to AWS EC2 instances
* Technologies used: React, Redux, Django, Django REST Framework, Python, Pandas, AWS, Docker, PostgreSQL, Jira

Google Developer Student Club Technical/Workshop Lead **Aug. 2021 - Present**

Google Developer Student Club at the University of Toronto's Mississauga Campus

* Hosting biweekly technical workshops regularly attended by over 30 UofT students on topics like Git, React, AWS, etc
* Empowering students to expand their knowledge in technology and build solutions for their local communities
* Regularly hosted professional development events such as resume reviews and mock technical interviews for students

Research Assistant (Cloud Computing) **Sep. 2021 - Oct. 2021**

Schulich School of Business, York University

* Used Google Cloud's Compute Engine and Google Cloud's Cloud Storage to gather *31 million* comments made by Reddit users on the subreddit 'Wall Street Bets' during the years 2019-2021
* Created a scalable, easy-to-use, and powerful data collection/processing system that evenly distributes the load amongst multiple docker containers running on the Google Cloud Compute Engine

Computer Science Teaching Assistant (CSC148) **Jan. 2021 - May 2021**

University of Toronto

* Led weekly tutorial sessions for 80 students, assisted professors in lectures containing 160 students, marked assessments
* CSC148 teaches object-oriented programming in Python, asymptotic analysis of algorithms, data structures, and more

Projects

Kubernetes Flashcard App | GitHub here

* *Technologies:* Kubernetes, Docker, AWS RDS, AWS S3, PostgreSQL, GKE, Travis CI, Node.js, React, Skaffold, JWT
* 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
* Created a microservice system architecture that separates the app into loosely coupled, independently deployable/scalable components which are tied together and accessible through an API Gateway
* Created a CI/CD pipeline using Travis CI to deploy this application to a GKE Kubernetes cluster

The Textbook Exchanger | GitHub here

* *Technologies:* React, Redux, Javascript, HTML, CSS, Firebase, Firestore
* An online marketplace that facilitates the process of purchasing and selling textbooks among students
* Created a RESTful API to perform CRUD operations on data and connected it to a front-end made with React & Redux

Interactive Pathfinding Algorithm Visualizer | GitHub here

* A visualization, created with Python, of several pathfinding algorithms including 'A*' and 'Dijkstra's Algorithm'

XMODEM File Server | CSC209 Systems Programming Project at the University of Toronto

* A server, written in C, capable of transferring files to multiple clients simultaneously using the XMODEM transfer protocol

Technical Skills

Programming Languages/Frameworks/Libraries: Python, PostgreSQL, React, Redux, Java, C, Javascript, Node.js, MIPS Assembly, Django, Django REST Framework, Pandas, HTML, CSS

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

Certifications: AWS Certified Cloud Practitioner

Other: OOP, Software Design Patterns, Software Development Life Cycle, Agile Software Development, SCRUM, TDD

Languages: English (Fluent), Polish (Conversational), French (Basic)

Relevant Coursework

University Courses: Software Design with Java, Data Structures and Analysis, Systems Programming (Linux, Bash, C), Computer Organization/Architecture (MIPS Assembly), Theory of Computation, Introduction to Computer Science, Probability and Statistics, Linear Algebra I & II, Multivariable Calculus
Other: Modern React with Redux, Database Design & PostgreSQL, Intermediate PostgreSQL, The Complete Guide to Docker and Kubernetes, Introduction to Data Science with Python, Applied Plotting/Charting & Data Representation with Python. *Please visit my LinkedIn page to learn more about these courses.*

Awards and Achievements

* University of Toronto Mathematical and Computational Sciences 2020-2021 Honour Roll **Jun. 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**