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 in June 2024

3.9/4.0 CGPA (88% average)

Experience

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

Wealthscope

* Developing front-end applications with React and Redux; developing back-end APIs using the Django REST Framework
* Created the new 'Retirement Blueprint' planning tool on Wealthscope's Advisor platform
* Created Django commands to process and upload large amounts of financial security data to AWS RDS
* Created a CI/CD pipeline 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 Lead **Aug. 2021 - Present**

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

* Hosting biweekly technical workshops for students on topics including Git, React, AWS, Docker, and more
* Empowering students to expand their knowledge in technology and build solutions for their local communities
* Regularly hosted professional development events such as 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 Cloud Storage to gather all 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 system through creating python scripts to start up and evenly distribute the processing 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, assisted professors in lectures, and 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, Kubernetes, Firebase, Travis CI, Git/GitHub, GitHub Actions, Jira, Skaffold

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**