

Emily Hu

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Education

University of Toronto

Toronto, Canada

Bachelor of Applied Science in Computer Engineering + PEY Co-op | Minor in Business

Sept 2020 - Current

- CGPA: 3.77
- Dean's Merit Award, Dean's Honour List (x4)
- **Courses:** Algorithms and Data Structures, Operating Systems, Databases, Computer Networks, Machine Learning

Skills

Programming Java, C, C++, HTML, CSS, Python, SQL, Terraform, MATLAB

Cloud Computing Azure, Kubernetes, Kafka, Docker, Lens IDE, REST API, Prometheus

Applications Git/GitHub/GitLab, Jira, Confluence, Grafana, Snyk, Microsoft Office Suite, Windows, Linux/Unix

Work Experience

Deloitte

Toronto, Canada

Cloud Engineer Intern

May 2022 - Aug 2022

- Worked with a variety of cloud computing software including Azure, Kubernetes, Prometheus, Kafka, Docker, and Lens IDE as a site reliability engineer/DevOps engineer on a project for a large Canadian Crown corporation client
- Developed new cloud technology with CI/CD deployment and source control on GitLab in an agile environment
- Managed the architecture on all cloud environments, maintained monitoring activities and improved the infrastructure

University of Toronto

Toronto, Canada

Academic Mentor

May 2021 - Aug 2021

- Led classes of 20-30 incoming first year engineering students to aid in their transition into university
- Designed math lessons covering a wide range of topics that were engaging and informative which increased the overall confidence and preparedness of the students by the end of the course

Extracurriculars

University of Toronto Aerospace Team

Toronto, Canada

Firmware Member

Sept 2020 - Present

- Researched spacecraft flight software frameworks (F Prime, cFS, SFSF), real-time operating systems (FreeRTOS), and software solutions for crash detection and recovery to be used in the development of the FINCH satellite
- Presented findings from proof of concept projects to help make important decisions on the software and architecture that will be used by the satellite

Engineers in Action – U of T Chapter

Toronto, Canada

External Relations/Finance Manager

Sept 2022 - Present

- Managed the finances and business development initiatives for the team to raise over \$1000 in funds to build a bridge
- Previous position: Media Manager (2021-2022), Fundraising & Campus Relations Lead (2020-2021)

Relevant Projects

CurrenSee

Toronto, Canada

Python, sklearn, NumPy, PyTorch, Matplotlib

Sept 2022 - Dec 2022

- Developed a currency detector that recognizes the currency and denomination of an image of a bill or coin to help the visually impaired
- Created a CNN machine learning model using AlexNet, CrossEntropyLoss, and the Adam optimizer to achieve an accuracy of over 95%

Guesscity

Toronto, Canada

C++, GTK, Libcurl, Git

Jan 2022 - Apr 2022

- Led a team to develop a GIS map application that displays the streets, intersections, points of interest and other geographic features
- Implemented graph theory and optimization algorithms including Dijkstra and A* to calculate the best travel route given multiple stops
- Incorporated a three-level game mode that allows the user to guess the city given geographical features