

Computer Engineering graduate from the University of Toronto. Skilled in software development and DevOps.

Work Experience

Software Developer Coop Backend team	BlueCat Networks Toronto, Canada	Sep 2022–Sep 2023
<ul style="list-style-type: none">• Collaborated with a team of developers to implement backend features for software components that act as clients and servers for the company’s internal tools, resulting in a 20% increase in system efficiency.• Redesigned a system to send retry requests with exponential backoff using Micronaut during server failure. Tested by creating unit and component tests to verify HTTP response codes, leading to 10% faster response times.• Integrated Blackduck and Coverity into required projects to maintain the quality of the codebase, increasing coverage from 0% to 80%. Documented specific use cases to increase the adoption rate by 20%.• Created Grafana dashboards with Prometheus and AWS Elasticsearch to monitor infrastructure stability.• Automated dependency updates for every backend repository by researching and utilizing RenovateBot.• Hooked up alerts for build pipelines to a slack channel which notifies the team about pipeline failures.• Contributed to testing a natural language processing model to improve its accuracy, precision, and recall.		

DevOps Intern DevOps team	Coinsquare Toronto, Canada	May 2022–Aug 2022
<ul style="list-style-type: none">• Managed cloud infrastructure and Kubernetes clusters to simplify technical processes.• Created Grafana dashboards using Prometheus for monitoring and reporting purposes.• Implemented user feedback into application updates and deployments, improving customer satisfaction by 15%.• Automated weekly branch merges across 20+ core repositories using a custom Python script, reducing merge time by 85% and eliminating 95% of manual conflicts, significantly boosting CI/CD efficiency.• Assisted developers with quality assurance by deploying applications to the testing environment using ArgoCD.		

Education

• Master of Engineering , University of Toronto, Canada.	Sep 2024–Sep 2025
• BASc. Computer Engineering , University of Toronto, Canada.	Sep 2019–May 2024
○ Major: Bachelor of Applied Science in Computer Engineering with Honours, GPA 3.50	
○ Minor in Engineering Business and Certificate in Engineering Leadership	

Technical Skills

• Languages:	C, C++, Python, Java, HTML, CSS, JavaScript, Rust, Go, SQL, Matlab
• Technologies:	React, MySQL, Postgres, AWS, GCP, Git, PyTorch, TensorFlow, Keras, Pandas, Docker
• Other:	Bash scripting, Terraform, Kubernetes, ELK Stack, Prometheus, Grafana, ArgoCD, Gitlab

Projects

- **AI Model Partitioning:** Developed a pipeline to partition a ResNet model into multiple submodels, lower the submodels to MLIR’s intermediate representations, and run the lowered subgraphs sequentially on hardware.
 - Developed two partitioning algorithms to make valid cuts on a graph based on topological sort.
 - Engineered the host program to schedule the device to run subgraphs sequentially on hardware with CUDA.
- **Interactive Map:** Created a Geographic Information System Mapping App by extracting data from the OSM database
 - Built a GUI with the ezgl library to enable user input and improved interaction with the application.
 - Implemented Dijkstra’s Algorithm with heuristics to find the shortest path between intersections.
 - Navigated the traveling salesman problem using the greedy algorithm approach with parallelization.