

Conrad Mo

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EDUCATION

University of Toronto

Honours Bachelor of Science, Computer Science Specialist (Co-op)

- Relevant Coursework: Software Design/OOP, Data Structures & Algorithms

Toronto, Ontario

Sep. 2022 – Apr 2027

EXPERIENCE

Software Engineer

Shopify

May 2025 – Present

Toronto, ON

- Minimized cascading failure rate in external services by **80%** by implementing error lumping for Shopify toolkit.
- Reduced **80%** of unnecessary Shopify traffic by implementing **Cloudflare WAF** rules to rate limit web-crawlers.
- Refined incident response time by **98%** by implementing an LLM to simplify blackhole job command generation.
- Improved post-mitigation visibility by **100%** through impact analysis of blackholing across all Shopify job classes.
- Increased test coverage to **95%** by writing **70+** test cases for untested features in Shopify internal tools.
- Accelerated incident mitigation by **35%** with automated **Grafana** alerts on RPM thresholds in Shopify services.

Software Developer

Hack the Valley

February 2024 – Present

Scarborough, ON

- Shipped food-logging features using TypeScript and React in QR code app to optimize tracking for **400+** hackers.
- Reduced type errors by **100%** by migrating old code base to newer Typescript frameworks and NodeJS versions.
- Overhauled admin panels to support mobile devices, improving the volunteering experience for **30+** volunteers.

Software Engineer

Northern Labs

January 2024 – April 2024

Remote

- Spearheaded the development of a proprietary Web3 microtransaction payroll with a team of 2 interns, resulting in a **40%** improvement in user transaction processing times, using ReactJS and TypeScript.
- Devised a scalable backend components with NestJS, utilizing PostgreSQL and Prisma ORM to store user records.
- Integrated Docker, Kubernetes, and AWS ECS to deploy containerized apps, reducing deployment time by **30%**.
- Wrote over **40** UI tests with **95%** coverage for payroll components to guarantee reliability for customer use.

PROJECTS

Eventful | Javascript, React Native, Rust, Docker, AWS, Github Actions, OpenAI API

October 2023

- Guided a team of three close collaborators in conceiving, designing, and engineering a mobile application that autonomously generates event items and efficiently tailors costs to accommodate users' budget constraints.
- Secured **14th position among 80** participating teams in Hack the Valley 8.
- Designed and built the React Native frontend for the app, ensuring an intuitive UI for mobile devices.
- Leveraged Rust to construct the backend to reduce any latency we had in between API calls and calculations.
- Optimized the backend by implementing concurrency, resulting in a remarkable **92%** increase in backend performance, greatly enhancing the application's overall efficiency and reliability.

SpeechSummarizer | Dart, Flutter, NodeJS, GCP, Cohere API

August 2023

- Oversaw a 3-member team in developing the award-winning mobile app, recognized as the Best Mobile Hack at Ignition Hacks 2023, which efficiently condenses lengthy meetings into concise minutes.
- Employed Flutter to for the frontend of hackathon project, guaranteeing a cross platform responsive user experience.
- Utilized Dart for code logic such as converting files into audio and seamlessly uploading them to Google Cloud bucket storage, which in collaboration with our NodeJS backend was used to generate concise content summaries.

TECHNICAL SKILLS

Languages: Python, Java, C, Dart, Bash, HTML, CSS, JavaScript/TypeScript, Rust, Yaml, JSON, SQL

Technologies: React, React Native, Flutter, Node.js, Fast-API, Flask, Redux, PostgreSQL, NestJS, Prisma, Django

Tools: Git, Docker, Kubernetes, Linux, GCP, Azure, AWS, Firebase, Github, JUnit, Mockito, Android Studio, Jira