

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 2026

TECHNICAL SKILLS

Languages: Dart, Java, C, Python, Bash, HTML, CSS, Javascript/Typescript, Rust, Yaml, JSON, SQL

Technologies: Flutter, React, React Native, 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

EXPERIENCE

Software Engineer

Shopify

May 2025 – Present

Toronto, ON

- Implemented error lumping in Ruby for Shopify toolkit, cutting cascading failures from external services by **80%**.
- Blocked **80%** of incoming traffic caused by Google's web-crawler bot unnecessary scrapping Shopify shops.
- Reduced user effort by **98%** by implementing a feature to automate blackhole job command creation.
- Enhanced aftermath visibility by **100%** through impact analysis for blackholing in all job classes.

Software Developer

Hack the Valley 9

February 2024 – Present

Scarborough, ON

- Built features to log food with Typescript and React into QR code app to streamline food tracking for volunteers and **400+** hackers.
- Migrated old code base to newer Typescript frameworks and NodeJS versions to reduce type errors by **100%**.
- Overhauled the 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.