

# Conrad Mo

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## EXPERIENCE

### Software Engineer

January 2024 – April 2024

*Northern Labs*

*Remote*

- Spearheaded the development of a proprietary Web3 microtransaction paywall with a team of **2 interns**, improving deployment efficiency by **25%**, 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 applications, reducing deployment time by **30%**.
- Remodeled the build pipeline of proprietary product to increase workflow build speeds and reduce costs by **20%**.
- Wrote over **40** UI tests with **95%** coverage for paywall components to ensure reliability in production for customer use.

### Software Developer

February 2024 – Present

*Hack the Valley 9*

*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 be responsive for mobile devices to optimize the volunteering experience of **30+** volunteers

## PROJECTS

### 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.

### Personal Portfolio | HTML, CSS, Typescript, React, Vercel 🌐 📱

September 2023

- Engineered a dynamic website using React and Typescript, seamlessly integrated within the Next.js framework to ensure robust functionality and scalability.
- Elevated the aesthetics and user experience of the website by applying TailwindCSS to achieve responsive design that adapts effortlessly to various screen sizes and devices.
- Enhanced user engagement and interactivity by expertly integrating Framer Motion to animate page elements.

### 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.

## EDUCATION

### University of Toronto

Toronto, Ontario

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

*Sep. 2022 – Apr 2026*

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

## 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