

Ricky Mao

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Languages: JavaScript, TypeScript, Python, CSS, HTML, Swift, GraphQL, SQL, C++

Libraries/Frameworks: React, Next.js, Redux, Apollo, Node.js, Express, Angular, Feathers

Technologies: Firebase, Firestore, Docker, PostgreSQL, AWS, Figma

Education

University of Waterloo | Bachelor of Software Engineering

Sept. 2019 - Apr. 2024

Experiences

Tesla | Software Engineering Intern

May. 2022 - Aug. 2022

- Created error components with **React** and **TypeScript** to help **over 200,000** Powerhub users repair errors.
- Pioneered server side rendering **React** components in **Next.js** for Tesla's Design System with 2 engineers.

Shopify | Software Developer Intern

Sept. 2021 - Dec. 2021

- Engineered **React** components with **TypeScript** to enable **230,000 developers** to design Shopify extensions.
- Optimized code coverage by creating **Jest** tests for **React** components in Shopify's web client and library.

Vretta | Software Developer Intern

Jan. 2021 - Apr. 2021

- Built dashboards to process **over 150,000** student test results for Canadian education ministries by leveraging **Angular, Express, and Feathers**.
- Overhauled Vretta's version control system using **Angular** services and components, allowing users to track changes when designing online exams.
- Devised and deployed an algorithm on **AWS Lambda** to calculate marker performances and developed schemas in **SQL** and API endpoints to manage marker statistics.

Blueprint | Software Developer

Jan. 2020 - Jan. 2021

- Collaborated with a team of designers to create a web application that helps Waterloo Paramedic Services triage and process patients in events with **over 30,000 attendees**.
- Created UI components for hospital resource dashboards, using **TypeScript** and **React**, and leveraged **Apollo Client** to manage states with **GraphQL** integration.
- Implemented a **GraphQL** server to process patients and event data using **PostgreSQL** and **Apollo**.

Quicktab | Software Engineer Intern

May. 2020 - Aug. 2020

- Led the scoping and creation of an order management web application currently used in 2 restaurants.
- Engineered dashboards that handle mobile orders and table assignments using **React/Redux** and **Firestore**.
- Built a QR code management tool using **Node.js, React,** and **Firestore**, decreasing restaurant QR code onboarding and maintenance time by **~83%**.

Projects

Noisy Discord Bot

Aug. 2020 - Dec. 2020

- Built and designed a music-generating Discord bot installed in **over 230 servers** with 2 developers.
- Developed a landing page with **~1000 monthly unique visitors** using **CSS, HTML,** and **JavaScript**.

BCSS Wildcats iOS App

June 2018 - Jan. 2020

- Launched a smart planner used by **over 500 students** with a **4.6 rating** using **Swift** and **Firebase**.