Ricky Mao

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Languages: JavaScript, TypeScript, Python, CSS, HTML, Swift, GraphQL, SQL, C++ **Libraries/Frameworks**: React, Angular, Redux, Apollo, Node.js, Express, Feathers

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

Education

University of Waterloo | Bachelor of Software Engineering (3.7/4.0 GPA)

Sept. 2019 - Apr. 2024

Experiences

Vretta | Software Developer Intern

Jan. 2021 - Apr. 2021

- Built dashboards to process over 150,000 student test performances 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 Engineering Intern

May 2020 - Aug. 2020

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

Projects

Treeline

- Led a team of 3 to build a platform helping Canadian teachers share resources, ideas, and questions.
- Formalized Treeline's product vision, product strategy, and internal roadmap.
- Conducted over 20 user interviews and defined specifications for the MVP and mock-up designs.

Noisy Discord Bot

- 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

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