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

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Education

University of Waterloo | Bachelor of Software Engineering (3.6/4.0 GPA)   *Sept. 2019 - Apr. 2024*

Experiences

Shopify | Incoming Frontend Developer Intern   *Sept. 2021 - Dec. 2021*

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 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   *June 2020 - Present*
- 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   *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**.