# Ricky Mao

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Languages: JavaScript, TypeScript, CSS, HTML, Python, Swift, Java, SQL

Technologies: React, Redux, Apollo, JWT, Node, GraphQL, Firestore, Firebase, PostgreSQL

## **Experiences**

#### **Blueprint** | Software Developer

Jan 2020 - present

- Collaborated with a team of designers to create a web application that helps Waterloo Paramedic Services triage and process patients in mass casualty events.
- 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 with **JWT** authorization using **Node**, **PostgreSQL**, and **Apollo**.

### **Quicktab** | Software Engineering Intern

May 2020 - Aug 2020

- 1 of 3 engineers in a 7 person startup focused on delivering a contactless restaurant experience.
- Led the scoping of order processing and table management features on the restaurant dashboard.
- Designed and built a restaurant dashboard that handles mobile orders and table assignment, using **Node**, **React/Redux**, and **Firestore**, to be shipped in MVP.
- Built a QR code management tool using Node, React, and Firestore, that optimizes onboarding and maintenance of restaurant QR codes.
- Created mockups and developed a responsive UI for the company website, using **React**.

# **Projects**

## **BCSS Wildcats iOS App**

- Designed and developed a smart planner used by over 500 students with a 4.6 rating.
- Consulted with a group of 5 teachers and over 60 students to build class and club scheduling features, using **Swift**, leveraging real-time updates with **Firebase**.

## Self-Operating Forest Fire Research Drone

- Collaborated with a team of 5 to engineer a drone that searches for forest fires and renders a heat map around the fire using image data.
- Implemented a heat map visualizer that produces accurate visual outlines of forest fires by using **Python**, **Matplotlib**, and **Seaborn**.

# Joke Lab Android App

Designed and built a joke generator installed by over 100 users with a 4.9 rating, using Java.

# **Education**