

Zi he Zhang

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Technical Skills

Languages: JavaScript/ TypeScript, Python, C, C++, Java, HTML, CSS/SCSS

Frameworks & Libraries: React, Node.js, Pandas, GraphQL, REST, Testing Library, Cypress, Apollo

Other Tools: Git, Postgres/SQL, Regex, Docker, GCP, Firebase, AWS, Figma

Experience

Software Engineer Intern | Replicant

May 2022 - Aug 2022 | San Francisco, CA

- Refined a major project by improving conversational AI intent recognition and data collection accuracy using Google **BERT and Regex**, **doubling** the number of qualified lead calls.
- Implemented new features for fundamental internal tools such as the primary customer dashboard and the SDK with **TypeScript**.
- Developed, tested, and deployed 4 projects worth **1.5 million dollars** of annual recurring revenue.

Software Engineer Intern | HomeX

Sept 2021 - Dec 2021 | Toronto, ON

- Migrated legacy codebase to an internal platform with 400+ users using **TypeScript, React**, and **GraphQL**.
- Aggregated and analysed consumer data to provide sales team with impactful real-time insights to obtain an estimate of **10x more sales** with **Pandas** and **Tableau**.
- Modularized commonly used Material-UI components to facilitate maintenance and development within the internal portal, allowing developers from other teams to compose pages **2x faster**.
- Built an autosaving form component with 100% test coverage, used across 7 different pages.

Full Stack Developer | Ontario Digital Service

Jan 2021 - April 2021 | Kitchener, ON

- Developed **3 new pages** for the province of Ontario's COVID-19 data visualization microsite with **450,000 + views** per month using **React, Apex Charts** and **Node.js**.
- Built a map displaying coronavirus cases in schools across Ontario with **Leaflet.js** and **GeoJSON** data.
- Created time filtering functionality for all graphs and tables based on user and stakeholder feedback.
- Refactored **over 100 components** and implemented **Storybook.js** to improve extensibility and maintainability.

Full Stack Developer | Rivvi

May 2020 - Aug 2020 | Toronto, ON

- Designed and developed an online ordering platform UI from ground up using **Figma** and **React**.
- Refactored **SQL** database and created **Node.js** API endpoints to host and process data.
- Authored a customer sign-up form using React and Google Sheets API. Deployed through **AWS Amplify Console**.

Projects

Real-Time Executive (RTX) | C

- Design and implemented a real-time executive using C on Intel DE1-SoC board with dynamic task and memory management as well as inter-task communications.

Education

University of Waterloo | **Bachelor of Applied Science in Computer Engineering**

Sep 2019 - April 2024

Relevant Courses: Data Structures & Algorithms, Systems Programming & Concurrency, Real-Time Operating Systems