Zhehai Zhang

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Education

University of Waterloo

Waterloo, Ontario

Sep. 2020 - May. 2025

COMPUTER SCIENCE WITH AI AND DIGITAL HARDWARE SPECIALIZATION

• 4.0 GPA (90.88%)

Skills

Programming Languages JavaScript/TypeScript, Python, C++, C#, C, Go, Java/Kotlin, HTML/CSS, SQL, Bash, Rust, Swift

Tools/Frameworks Google Cloud, AWS, Node, Express, GraphQL, React, React Native, Flask, Docker, Azure, Linux, Flutter Concepts Backend/Frontend, Cloud, Hardware, VR/AR, Mobile, SQL/NoSQL, Networks, Operating Systems

Work Experience_

Linkedin 🗹

Sunnyvale, California

FRONTEND ENGINEER (HIRING PLATFORM REPORTING), JAVASCRIPT, WEBPACK, EMBER.JS, SASS

Jun. 2023 - Sep. 2023

- Developing features on Linkedin Recruiter the reports that recruiters view for hiring metrics and insights
- Designing and implementing a **customer facing charts library** that unifies 90% of Linkedin Talent Solution's charts
- Bundled **Ember addon** using **Webpack** and **Broccoli** for teams outside of Recruiting to easily use
- Collaborated with various engineering managers, staff software engineers and designers to streamline chart themes, design tooltip formatters, and fix accessibility guidelines

BitGo 🗹

Palo Alto, California

SOFTWARE ENGINEER (DEFI AND CUSTODY), TYPESCRIPT, REACT NATIVE, NEXT.JS

Jan. 2023 - May. 2023

- Built core features in Bitgo's Web3 Wallet over Android, iOS and Chrome Extension
- Deployed checklist and watchlist features to production which directly resulted in **10K daily active mobile users**
- Created backup and restoring methods for crypto passphrases using Google Drive backup and iCloud backup protocols
- Identified and fixed dashboard logic issues on Bitgo's main product, unblocking many of Bitgo's important clients

Splunk 🗹

Toronto, Ontario

SOFTWARE ENGINEER (IOT FULLSTACK), FLASK, NODE.JS, GRAPHQL, SWIFT, PYTHON

May. 2022 - Aug. 2022

- Worked on a IoT monitoring device over embedded (Python), backend (GraphQL Flask) and iOS (Swift)
- Deployed a status lightring feature to prod which allowed customers to control and determine the state of the device
- Discovered and fixed security vulnerabilities with the backend, improved 20% user interface latency by threading endpoint calls and refactoring code in preparation for **Public Beta**

D2L Corporation []

MICROPYTHON, C#, RUST

Toronto, Ontario

SOFTWARE DEVELOPER, AMAZON AWS, TERRAFORM, MYSQL, DYNAMODB, NODE.JS, REACT

Sep. 2021 - Dec. 2021

- Refactored workflow engine using Lambda functions and owned scheduling workflow actions using Node.js
- Wrote tools in JS to replicate AWS services such as SOS and DynamoDB TTL locally which reduced development time

VRIoT - Virtual Reality Manager for IoT Devices 🔀

MIT Reality Hacks Winner

Built VR application in Unity to interface with IoT devices in real time, winning two categories prizes

Jan. 2023

- Implemented Rust backend to proxy bidirectional traffic between IoT devices and VR headsets
- Used ESP32 microcontrollers running Micropython to control an alarm system, multiroom lighting and smart doorbell

InDaBin - Smart Disposal Tracker 🔀

Ignition Hacks 2022 Winner

Go, Rust, Flutter, Raspberry Pi, PostgreSQL, Docker, Google Vision

Aug. 2022

- Engineered a hardware garbage sorter with image detection using OpenCV and Bluetooth, which won First Place
- Developed a Go Rest API that identifies disposables and sorts them using Google Vision and Text to Speech

ShopAdvisr - Smart Shopping App 🗹

Hack the Valley V Winner

JAVASCRIPT, PYTHON, GOOGLE VISION, ML, SELENIUM

Sep. 2021

- Leveraged **React Native** mobile app to create a smart shopping app for Loblaws, which won 3 different awards
- Implemented a Flask server with subject detection in voice using Assembly AI and Datamuse

Awards