

Michael Huang

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Full Stack Software Engineer with over four years of development experience building intuitive user interfaces

Work History

GrainFox

Full Stack Software Engineer

Oct 2022 – Jan 2024

- Built and maintained industrial B2B web application using Vue.js and Django, serving over 5000 users with a 99.9% uptime.
- Implemented RESTful APIs, server-side business logic, and responsive components while achieving over 90% test coverage.
- Developed AI-driven recommendation service that streamlined content discovery and improved user engagement.
- Integrated cloud security solution to enhanced platform security and observability, and implemented alarms and monitors to ensure optimal performance, resulting in significantly decreased system down time and debugging lead time.
- Provided guidance to junior developers, and participated in code reviews to maintain code quality and best practices.
- Worked closely with product managers, designers, and marketers to define and achieve project goals, communicated effectively with stakeholders to understand requirements and deliver solutions.

MapaRobo

Software Developer

Oct 2021 – Mar 2022

- Architected and developed an Android mobile application using React Native that facilitated wireless communication with the in-house robot system to provide comprehensive monitoring, remote-control, and task scheduling capabilities.
- Designed intuitive user interfaces and gathered user feedback to continuously improve app functionality.
- Integrated Google Maps API and SDKs to provide auto-complete, significantly enhancing user experience.
- Conducted extensive unit, integration, and user acceptance testing to verify application functionality and prevent regression.
- Worked closely with product manager, engineers, and designers to refine product requirements.

Ballard Power Systems Inc.

Control Engineer Co-op

Jan 2020 – Aug 2020

- Implemented control software system logic and human machine interfaces to upgrade industrial Fuel Cell testing capabilities.
- Automated faculty aggregate consumption reporting to provide stakeholders regular updates on faculty efficiency.
- Improved SQL database connectivity by migrating legacy C# dynamic-link library functionalities to LabVIEW.

Surrey Schools

Robotic Instructor

Jun 2016 – Jul 2017

Projects

Auto Trader: AI powered autonomous stock program that trades 13 symbols on a per minute basis.

Course Scheduler: Tool for creating minimal conflict weekly schedules based on program faculty constraints.

Wait.dc: Waitlist management Discord bot for local club built using Python, Firebase, and hosted on Google Cloud Platform.

Wonka Bot: AI Wonka meme creator that scrapes over 100000 labels to create new meme context.

Skills

Specialties: Googling, Full Stack, Web Development, Mechatronics, GUI / HMI, Agile, REST API, test / debug, communication

Languages: Python, JavaScript, TypeScript, SQL, HTML / CSS, Rust, Markdown, C++, Ladder logic, English, Chinese Mandarin

Frameworks & Libraries: Vue.js, Next.js, React, React Native, Django, Tailwind CSS, Jest, Selenium, Playwright

Tools & Platforms: NoSQL, Git, Docker, Confluence, GitHub, Google Cloud Platform, Firebase, SendGrid, Vercel, Contentful, LabVIEW

Hardware: Raspberry Pi, Arduino, SCADA, PLC, Beckhoff TwinCAT, Siemens

Education

Simon Fraser University

Bachelor of Applied Science in Mechatronic Systems Engineering, minor in Computer Science - AI

Oct 2021

Certifications

Certified ScrumMaster (CSM) | Scrum Alliance

Nov 2023

C, C++, C#, Java, SQL, HTML Certification | Sololearn

Nov 2019

Mechatronic Systems Assistant | Siemens

Aug 2018