Michael Huang

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Full Stack Software Engineer with 4+ years of technical experience building exceptional user experiences

Skills

- Full-Stack | Frontend |Backend | Web Development | Agile | Automation | OOP | RESTful APIs | TDD
- Python | JavaScript | SQL | NoSQL | HTML | CSS | Vue | Next | React | React Native | Django | Tailwind CSS | Jest | Selenium | Playwright | Prisma | Pandas | Numpy | Matplotlib | Sckit-learn | Beautiful Soup | NLTK
- Git | Docker | Confluence | GitHub | SVN | Google Cloud Platform | Firebase | Vercel | Windows | Linux | Datadog | GCP
- Raspberry Pi | Arduino | Siemens | PLC | Communication | problem-solving | leadership | English | Chinese

Experience

Full Stack Software Engineer   GrainFox   Oct 2022 – Jan 2024

- Built and maintained B2B enterprise 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 to advance software solution capabilities.
- Created factory-based unit tests, and E2E automation tests to ensure robust performance with over 90% test coverage.
- Integrated AI APIs to create recommendation service that reduced clicks-to-content by 40% and increased engagement.
- Implemented cloud security solution to enhance platform security and observability. Implemented alarms and monitors to ensure optimal performance, reducing system downtime by 20% and improving bug resolution time by 30%.
- Mentored junior developers, actively providing code review feedback and guidance, which reduced rework by 20%.

Robotic Developer   MapaRobo   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 real-time comprehensive monitoring, remote-control, and task scheduling capabilities.
- Designed intuitive user interfaces, reducing user navigation time by 15%, based on feedback from bi-weekly user testing.
- Integrated Google Maps API and SDKs to provide auto-complete, reducing search completion time by 25%.
- Conducted extensive unit, integration, and user acceptance testing, achieving a 95% bug-free deployment rate.

Control Engineer, Co-op   Ballard Power Systems Inc.   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, reducing report time by 50% and increasing stakeholder satisfaction.
- Improved SQL database connectivity by migrating legacy C# dynamic-link library functionalities to LabVIEW.

Control Technician   Northwest Tech-Con Systems Ltd.   May 2018 – Aug 2018

- Pipelined material preparation, unit assembly, and testing process to decrease manufacturing lead time.
- Operated various hand, machine, and testing instruments to assemble, troubleshoot, and provide quality assurance of high voltage sump pump control panels for both commercial and residential sectors.

Robotic Instructor   Surrey School District   Jun 2016 – Jul 2017

- Instructed cohorts of over 25 students on the fundamentals of design, robotics, programming, and testing.
- Mentored 5 teams to create a competitive autonomous robot under a demanding project timeline.

Education

Bachelor of Applied Science   Simon Fraser University   Sep 2015 – Oct 2021

- Major in Mechatronic Systems Engineering, Minor in Computer Science – Artificial Intelligence

Mentorship

Technovation Girls: Mentored a team of 6 girls to research, collaborate, and develop a software solution.   Dec 2020 – Apr 2021

Others

Career Essentials in Generative AI | Microsoft and LinkedIn	Sep 2024
Open-Source Contribution: Implemented integration example for Next.js App Router | Open Replay	Jul 2024
Certified ScrumMaster (CSM) | Scrum Alliance	Nov 2023
C, C++, C#, Java, SQL, HTML Certification | Sololearn	Nov 2019
Certified Mechatronic Systems Assistant (Intelligent machine operator) | Siemens	Aug 2018