# Michael Huang

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# **Work Experience**

### GrainFox

Software Engineer - Full Stack

Oct 2022 - Jan 2024

- Built and maintained industrial web application serving over 5000 users through the implementation of core features and components while achieving and sustaining over 90% test coverage.
- Developed an Al-driven recommendation system that streamlined content discovery by providing a more personalized browsing experience, resulting in increased user engagement.
- Enhanced platform security and observability by integrating a cloud security solution, implemented alarms and monitors to ensure optimal performance, and significantly decreased system down time and debugging lead time.
- Developed an advanced cashflow planning tool, empowering users to efficiently plan and visualize their fiscal years, thereby improving financial management and forecasting capabilities.
- Established automated email pipelines from data processing to the creation of email templates, ensuring consistent weekly communication and scheduled sends.

### MapaRobo

Software Engineer

Oct 2021 - Mar 2022

- Independently developed a cross-platform mobile app using React Native, enabling wireless communication with the inhouse robot system to provide comprehensive monitoring, remote-control, and task scheduling capabilities.
- Designed intuitive interfaces and conducted thorough testing, gathered user feedback to continuously improve app functionality in order to provide a consistent user experience.
- Worked closely with product manager, engineers, and designers to refine product requirements via user story. Actively participated in regular strategy sessions to ensure the app met user needs.

#### Ballard Power Systems Inc.

Control Engineer Co-op

Jan 2020 - Aug 2020

Surrey Schools

Robotic Instructor

Jun 2016 - 07/2017

# **Projects**

Auto Trader Joe: Al powered autonomous stock day trader that scans 13 high profile symbols for per minute trading potential.

MSE Course Scheduler: Tool for creating minimal conflict timetables based on per class constraints.

Wait.dc: Automated Discord bot built to handle a priority queue waitlist for the students of SFUS Badminton Club post COVID-19.

Wonka Bot: Al text generator trained from over 100000 labels to create novel meme labeling for Condescending Wonka.

#### Skills

Specialties: Googling, Full Stack, Web Development, Mechatronics, GUI/HMI, SaaS, Agile

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, Pandas, Matplotlib

Tools & Platforms: NoSQL, Git, Docker, Confluence, Jira, Google Cloud, Google Map, Firebase, SendGrid, Vercel, LabVIEW

Hardware: SCADA, PLC, Beckhoff TwinCAT, Siemens, Raspberry Pi, Arduino, CAN, SPI, UART

### Education

### Simon Fraser University

Bachelor of Applied Science in Mechatronic Systems Engineering, minor in Artificial Intelligence

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