

EVAN CHENG

WEB DEVELOPER

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PROFILE

With a passion for coding, creativity, and modern technology, I pursued a web development career, specializing in building dynamic and impactful online experiences. I completed an online course in Web Development from BrainStation and gained expertise in full-stack website development using React, Express, and MySQL. Additionally, I have hands-on experience working on projects involving C-programming, including automation classification machines and drone control.

SKILLS

HTML, CSS, Javascript, Node, React, Express, Knex, MySQL, Chakra UI, Axios, Web Socket, OpenAI API, Agile Development, GitHub

EXPERIENCE

PLC Specialist | Unifiller Systems

SEP 2022 - PRESENT, DELTA, BC

- Created schematic diagram for the controller, relays, photo sensors, pneumatic valves, and linear servo motors.
- Programmed the PLC control system with ladder diagrams and designed the Human Machine Interface in VisiLogic and Easysoft for the oil sprayer and icing depositor process.
- Participated in group brainstorming sessions to generate innovative ideas and solutions and collaborated with cross-functional teams to deliver projects on time

EDUCATION

BrainStation | Diploma, Web Development

SEP 2022 - APR 2023, VANCOUVER, BC

UBC | Master of Engineering in Mechatronics Design

SEP 2019 - AUG 2020, VANCOUVER, BC

- Design and build a drone control system for students in UBC mechatronics courses.

PROJECTS

Dynamic Portfolio Investment App

MAY 2023, BrainStation

- Developed a dynamic and user-friendly front-end using React, integrating web sockets for real-time updates of stock prices.
- Implemented Axios to fetch stock prices, company profiles, and earnings from external sources, providing comprehensive and up-to-date information.
- Established a REST API in the back-end using Express, ensuring seamless communication and data exchange with the front-end.
- Leveraged Knex to create a secure and efficient MySQL database, specifically designed to store user transaction records, holdings, and portfolio information.

Drone Control System Design

Aug 2020, UBC

This project aims to design and build a drone control system for students in UBC mechatronics courses to perform their lab work.

- Created the drivers for the gyroscope, accelerometer, and drone motors and implemented PID controller with feedback linearization in Arduino.
- Programmed UART for Bluetooth to remote control the drone and I2C for gyroscope and accelerometer to receive the angular position and rate from the drone.
- Soldered sensors and actuators with Arduino shield and drone frame PCB.