

Jeffrey Huang

647-639-3586 | j222huan@uwaterloo.ca | [linkedin.com/in/jeffrey-huang-yz](https://www.linkedin.com/in/jeffrey-huang-yz) | github.com/jeffrey-huang-yz

TECHNICAL SKILLS

Languages: Java, C++, MySQL, JavaScript, HTML, JSX, Sass, CSS

Developer Tools: Eclipse, VS Code, Android Studio, MySQL Workbench, Git, Figma, Maven, Slack, MS Office

PROJECTS

Full Stack Portfolio | *React, Node.js, JSX, SCSS, Sanity CMS, Framer Motion* Jan. 2024 – Present

- Developed a **full-stack** website using **React.js, JSX, and SCSS** for a responsive, sleek, and interactive UI.
- Implemented **Framer Motion for smooth animations**, enhancing the overall user experience.
- Utilized Sanity CMS on the back-end** for efficient content management and seamless data flow, thus allowing for simple real-time content management.
- Established **server-side functionality** by integrating **Node.js**, seamlessly connecting front-end and back-end.

Active Quest | *Java, JDBC, Java Servlet, MySQL, Git, Figma* June 2023 – Present

- Developed a **three-tier Android fitness application** using **Java** while employing **Servlet/REST APIs** for client-server communication and **JDBC/DAOs** to connect with **MySQL** database.
- Tested the connectivity, query, and criteria APIs** through test projects to ensure working API.
- Incorporated a class using **HTTPS messages**, enabling the app to have video-playback capabilities
- Designed **16 database models** by establishing **1:1, 1:n, and n:n relationships**
- Architected program structure and project design by creating **UML Class diagrams**.
- Contributed to the prototype **UI design** by creating **9 of the 32 frames** on **Figma**, providing documentation and planning for each asset created in development.

Automated Essential Oil Diffuser | *C, STM32, Git, AutoCAD* Sept. 2023 – Nov. 2023

- Designed and constructed an **essential oil diffuser** and **Bluetooth heart rate sensor** to create an insomnia solution driven by heart rate.
- Created **Bluetooth connectivity** between the devices through 2 HC-05 modules and **UART interrupts**.
- Developed algorithms** to manage AND gate transistors and to compute heart rate readings through ADC.
- Efficiently used **Git** for **version control, managing branches** and **pushing/pulling** updated code.

Login and Registration Page | *Java, JDBC, MySQL, HTML, Javascript, CSS* June 2023 – July 2023

- Constructed front-end views using **HTML, Javascript, and CSS** to forward user inputs to **Java Servlets**.
- Implemented **JDBC** within **Servlets** to receive data from the front-end and store data into a **MySQL** database

EXPERIENCE

Academic Success Club Co-Founder Oct. 2022 – June 2023

Bur Oak Secondary School

Markham, ON

- Educated a club of **70 students** regarding studying/organizational techniques catered to the student audience by hosting bi-weekly seminars and activities.
- Managed communication** between club supervisors and members by managing weekly emails, school-wide announcements, and posters.

Food Service Worker July 2022 – Nov 2022

Greek Stop

Markham, ON

- Collaborated** with a diverse team, effectively **communicating and coordinating** efforts to meet requests
- Maintained the **most timely service** amongst five colleagues by **multi-tasking** various cooking processes within a **fast-paced environment**.

EDUCATION

University of Waterloo

Bachelor of Applied Science in Computer Engineering

Waterloo, Ontario

Sept. 2023 – June 2028

AWARDS

University of Waterloo: Nortel Networks Undergraduate Scholarship, CSMC Dist., President's Scholarship of Dist.

Bur Oak Secondary School: K. Mereweather Award of Excellence, Principals Award (awarded to the three highest averages), Ontario Scholar (**97% average**)