

Jeffrey Huang

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EDUCATION

University of Waterloo

Bachelor of Applied Science in Computer Engineering — GPA: 3.9/4.0

Waterloo, Ontario

Expected: April 2028

TECHNICAL SKILLS

Languages: C++, Java, Python, Typescript (Beginner), JavaScript, HTML5, CSS, SQL

Developer Tools: Git, Github, Azure (Obtained AZ-900 and AI-900), Figma, Slack, MS Office

Libraries/Frameworks: React.js, Express.js, Axios, Mongoose, Flask, Pandas, NumPy, PyTorch (Beginner)

PROJECTS

UW Exam Schedule Exporter | *React, TS, Python, Flask, Pandas, MongoDB*

Feb 2024 – March 2024

- Engineered a **Google Chrome extension** using **React, TypeScript, and Python** to create innovative server-side features and a polished UI, allowing students to instantly export their exam schedule via a .ics file.
- Developed a Python script utilizing the **Tabula** library and **Regex** to parse data from PDF files, thus creating functionality for the parsing of exam data in a structured format.
- Utilized **Pandas** library for data manipulation, enabling integration of exam data into a **MongoDB** database.

Diskovery - Spotify Music Recommender | *React, Node.js, Express.js, MongoDB*

Jan. 2024 – Feb. 2024

- Built and deployed a **full-stack** solution using **React**, with responsive front-end components and client-side routing using **React Router**, to help users search for music on Spotify using target metrics.
- Implemented asynchronous data fetching using **Axios** to retrieve data from the backend, ensuring real-time updates and dynamic content rendering.
- Leveraged **Express.js, Axios, and Spotify's Web API** to create a REST API with **22 endpoints** that enabled client-server communication and CRUD operations on a **MongoDB** database.
- Integrated **Passport.js** with **Google OAuth 2.0** for authentication, allowing the management of account data.

Full Stack Portfolio | *React, Node.js, CSS, Sanity CMS, Framer Motion*

Dec. 2023 – Jan. 2024

- 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 user experience across **9 components**.
- Utilized **Sanity CMS** in the back-end for efficient content management and seamless data flow, thus allowing for simple real-time updates to the website's content.

Automated Essential Oil Diffuser | *C, STM32, AutoCAD*

Sept. 2023 – Nov. 2023

- Developed an **essential oil diffuser** and **Bluetooth heart rate sensor** as an automated insomnia solution.
- 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.

Active Quest | *Java, JDBC, Java Servlet, MySQL, Figma*

June 2023 – September 2023

- Developed an Android fitness application alongside a team of 10 while employing **Java Servlet/REST APIs** for client-server communication and **JDBC/DAOs** to connect with a **MySQL** database.
- Tested the connectivity, query, and criteria APIs** through test projects to ensure working API.
- Designed **16 database models** by establishing **1:1, 1:n, and n:n relationships** within the database design.
- Contributed to the UI design by creating **9 of the 32 frames** on **Figma**, providing documentation and planning adhering to **MVC principles**

EXPERIENCE

Microsoft - Healthy Lifestyle Chatbot

Jan. 2024 – April 2024

WE Accelerate Program - Microsoft Azure & Artificial Intelligence

Waterloo, ON

- Planned the development of a chatbot solving rising health concerns using Azure technologies such as **Azure ML and Azure Cognitive Services** to create personalized health recommendations unique to users.
- Developed a **pipeline sequence** for a chatbot, integrating **feature engineering, Azure container instances, and GPT-3.5** for Model training/deployment, thus creating a plan covering the software development cycle.

AWARDS

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