

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 | jeffreyhuang.me

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), Google Cloud, Figma, Slack, MS Office

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

PROJECTS

Remembrance | React, Python, Flask, Pytorch, MongoDB

April. 2024 – Present

- Developed and hosted a full-stack web application using **React.js** and **Axios** for the frontend and **Flask** for the backend to allow users to upload a photo and find similar photos in their Google Photos library.
- Deployed a backend featuring machine learning models from **PyTorch** such as **YOLO** and **ResNet** to allow for **object detection and feature extraction** from user-uploaded images.
- Implemented **OAuth 2.0** authentication flow using **Authlib** to securely authenticate users and obtain access tokens for accessing their Google Photos data.

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.
- 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.

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.
- Designed **16 database models** by establishing **1:1**, **1:n**, and **n:n relationships** within the database design.
- Contributed to UI design by creating **9 of 32 frames** on Figma, adhering to **MVC principles** in documentation.

EXPERIENCE

Microsoft - Healthy Lifestyle Chatbot Developer

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.