

KEVIN WU

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Education

University of Waterloo

Bachelor of Computer Science - GPA 3.94

Sep. 2023 – May 2028

Waterloo, ON

Technical Skills

Languages: Python, HTML, CSS, JavaScript, C++, SQL, Java

Developer Tools: Next.js, React, Tailwind CSS, Figma, DaisyUI, PostgreSQL

Technologies/Frameworks: Git, Flask

Relevant Experience

McMaster University

June 2022 – August 2022

Research Intern

Hamilton, ON

- Worked under Professor Zheng's supervision to create a wearable product that allows swimmers to analyze their swims with metrics such as distance per stroke, underwater distance traveled, etc.
- Designed a hardware prototype to attach onto moving swimmers in water in order to collect a variety of data (euler angles, acceleration, etc.).
- Collected, analyzed, and processed sensor data (.csv) into metrics and graphs using Python libraries (NumPy, SciPy, Matplotlib) to visualize data.
- Analyzed and developed algorithms to compute euler angles into swim metrics (stroke rate, distance traveled, breaths taken) using Python.
- Used Jupyter Notebook to document progress and collaborate with others in the project.

Projects

EmailManager | *Python, Next.js, Tailwind CSS, Flask, PostgreSQL*

- AI-based web app with user authentication that detects and deletes spam emails, and automatically drafts professional replies to important messages.
- Used Google Cloud to retrieve user email data, and used OpenAI API to generate and save email replies as drafts.
- Used Flask, PostgreSQL to connect and store Python data for communication between backend and frontend display.
- Built interactive frontend with Next.js and Tailwind CSS for smooth user experience.

Spotify Discover Whenever | *React, Tailwind CSS*

- Web app designed to help users find new recommendations based on Spotify listening history.
- Uses JavaScript to call Spotify API to fetch users' top songs, generate recommendations, and create playlists.
- Uses React Hooks to pass data from JavaScript wrapper to frontend to display users' top songs.
- Built interactive web app interface with React, Tailwind, and Figma to improve user experience.

Text-Based RPG | *C++*

- Simple yet interactive text-based RPG with a tutorial, story line, a variety of areas, actions, and items.
- Used C++ classes and functions to keep code reusable, and create the game with minimal amounts of boilerplate code.

Awards

National Math Scholarship

Value: \$15,000

Entrance Scholarship

University of Waterloo

- Awarded by the University of Waterloo for demonstrating passion in the field of mathematics, along with my notable contest scores and high school/extracurricular achievements.

President's Scholarship of Distinction

Value: \$2,000 + \$1,500

Entrance Scholarship

University of Waterloo

- Awarded by the University of Waterloo for maintaining a 95%+ average in high school.

Leadership / Extracurricular Activities

Math Society @ UWaterloo

October 2023 – Present

Presidential Assistant

University of Waterloo

- Helped the President of MathSoc @ Waterloo with various tasks, from doing research to collecting surveys.

Student Council

June 2022 – June 2023

Vice President

Westdale Secondary School

- Led the executive council of the student council in planning, organizing, and running events for the student body.