KEVIN WU

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Education

University of Waterloo — **September 2023 – May 2028**
Bachelor of Computer Science - GPA 3.94 — *Waterloo, ON*

Technical Skills

Languages: Python, JavaScript, C++, SQL, Java, HTML, CSS,
Developer Tools: Next.js, React, Tailwind CSS, DaisyUI, PostgreSQL
Other Technologies/Frameworks: Git, Flask

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 libaries (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.
- Integrated REST API to automate email management with Postgres database, using client-server interactions at API endpoints for flawless POST/GET requests.
- Used Google Cloud to retrieve user email data, and used OpenAI API to generate and save email replies as drafts.
- 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.
- Used JavaScript to call Spotify API to fetch users' top songs, generate recommendations, and create playlists.
- Used 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**
Presidental 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.