Kim Guo

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SKILLS

Languages: Java, Python, C, C++, R, Excel, SQL, HTML5, CSS3, JavaScript/TypeScript, React, Shell Script
Libraries/Frameworks: Angular, Flask, PostgreSQL, Streamlit, Matplotlib, Numpy, BeautifulSoup, pandas, scikit-learn
Other Tools: Figma, Adobe Illustrator, Blender, Power BI, Git, Jupyter Notebook, Postman API, REST APIs

PROJECTS

re:wind | *HTML, CSS, React.js, Python, Flask, PostgreSQL, Google Cloud API, Cohere API, Figma, Aseprite*
- Created a web-based application using a React.js front-end and a Flask back-end that uses **AI processing** to add sound effects to a video uploaded by the user to add a nostalgic touch, and saves it to a database to be retrieved in-app.
- Programmed the **Flask back-end** and **managed integrations** between the front-end, back-end, and PostgreSQL database.

Skinhance | *Python, BeautifulSoup, Streamlit, pandas, scikit-learn*
- Web scraped product sites from YesStyle using BeautifulSoup and requests to create a database of **350 skincare products** and created a **content-based skincare recommender system** recommending products of similar benefits and ingredients.
- Implemented a **machine learning** algorithm comparing product and ingredients similarities using a **KNN algorithm** implmenting **cosine similarity**, and a feature allowing users to select the number of recommendations to produce.

Airate | *HTML, CSS, PHP, JavaScript, SQL, Google Maps API, Figma*
- Collaborated in a team of 4 to create a **community-focused air quality tracking mobile web application**, features including account creation, a weekly leaderboard system, location tracking, and regional air quality and personal notes history.
- Designed and prototyped **5 pages** of the web app's UI/UX using Figma, creating a moodboard, low-fidelity wireframes, and a high-fidelity prototype with a **user-friendly and modern UI**.
- Programmed the designed pages using HTML, CSS, and JavaScript. Collaborated with team to **integrate the front-end with the back-end and database** through PHP and MySQL.

COMMUNITY

Hack the 6ix Organizing Team   November 2023 – Present
Design Executive
- Created **low-fidelity sketches** and **high-fidelity design assets** for the **sponsorship package website design** on **Figma**.
- Designed **5+ general and website assets** and participated in the hackathon **website design process**; performed user research using **card sorting** and **A/B testing**, wireframing, and prototyping.

UW CS Club Organizing Committee   August 2023 – Present
Designer, Community Representative Lead
- Executive of a club of **600+ members** each term and an online Discord community of **4000+ members.**
- Designed and produced **10+ graphic assets** to be posted on Instagram, Discord, Linkedin, etc. for marketing purposes.
- Led 4 initiatives: **club swag**, **internship preparation**, **engagement events**, and the Class Profile **website design** logistics.
- Created survey questions, **analyzed survey data**, and drafted and edited content for the UWaterloo CS Class Profile website.

Bayview FBLA   June 2020 – June 2023
President
- Managed a business club of **70+ members**, leading teams of 9+ club executives and 15+ trainers. **Developed training materials** for **10+ business categories**. Organized both online and in-person club structures. Led trainer and member recruitment processes for **3+ years**.
- Managed club logistics, organized regular club-wide events; designed marketing PowerPoints and social media posts.

EXPERIENCE

Ontario Medical Imaging   July 2022 – August 2023
Receptionist
- Managed patients' medical imaging appointments and records using **Radiant RIS** and **Alembico EMR**, through telephone and in-person. Communicated with patients regarding appointments and inquiries in fluent English and Mandarin.
- Carried out examination preparation for x-ray, ultrasound, and mammography patients, including **collecting and recording medical history**, dressing them in examination gowns, and submitting completed scans to radiologists.

EDUCATION

University of Waterloo   September 2023 – April 2028
Honours Bachelor of Computer Science, Co-op | ***GPA: 3.9/4, CAV: 88%***
- Coursework in algorithm design and analysis, imperative, functional, and object-oriented programming, data structures, script automation, developing test suites, statistical techniques, and data analysis and visualization.