

Kim Guo

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Technical Skills

Languages: Python, C++, C, C#, Java, R, HTML, CSS, PHP, JavaScript, TypeScript, SQL, Swift, Shell Script

Libraries/Frameworks: React, React Native, Angular, Flask, MongoDB, BeautifulSoup, Streamlit, scikit-learn

Design tools: Figma, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Blender (CAD)

Others: Unity, Power BI, WordPress, Git, Jupyter Notebook, Postman API, REST APIs, FTP hosting

Experience

Universus Media Group

May 2024 - August 2024

Web Designer + Developer

Markham, ON

- Created **responsive UI/UX designs** for 5+ websites using **Figma**, **Adobe Photoshop**, and **Adobe Illustrator**, and developed them using custom **HTML**, **CSS**, **JavaScript**, and **PHP** on **WordPress**, increasing web engagement for various clients/partners, including Honda, CarRX, and Special Olympics Ontario.
- Handled **website deployment** via **FTP**, ensuring efficient transitions and proactive web maintenance for reliability.

Hack the 6ix (Organizing Team)

November 2023 - Present

Design Director

Toronto, ON

- Conducted comprehensive **UX research** (techniques including **interviews**, **card sorting**, **A/B testing**) to gain actionable insights, leading to improved user engagement with the hackathon landing page.
- Utilized **Figma** to design the 2024 hackathon **landing page** and **dashboard pages**, which included **2 distinct design themes** for each phase of the hackathon application process, and **customized design improvements** for the navigation bar, home, application, and schedule pages to optimize the user experience with the dashboard.

UWaterloo Computer Science Club

August 2023 - Present

Web Design Lead (Design Co-Lead)

Waterloo, ON

- Led a team of 8 designers in the **UI/UX design** of the 2024 Class Profile, a faculty-wide website initiative presenting an aggregation of survey data about each year's graduating Computer Science class.
- Utilized **Figma** to engage in designing **10+ web pages** and **15+ UI components** for the Class Profile website, enhancing user experience with cohesive visually appealing and intuitive layouts.

Projects

Pizza Studio [TechNova 2024 Winner] ↗ | TypeScript, React Native, Python, Flask, MongoDB, AWS, OpenAI, Hume AI ++

- Developed a **React Native** mobile application with a **Python Flask back-end** to combat domestic violence, featuring **audio recording**, **processing**, and **alert-sending** capabilities while disguised as a pizza ordering app.
- Leveraged **OpenAI**, **Hume AI**, and **Deepgram AI** for **multi-layered processing** of audio recordings, performing **sentiment analysis** to assess risk and automatically send alerts to an emergency contact upon high risk level.
- Utilized **Figma** and **Tamagui** to design and develop a **clean and intuitive user interface** that guides intended users seamlessly while **disguising the app as a pizza delivery app** to protect users from potential threats.

re:wind ↗ | HTML, CSS, React.js, Python, Flask, PostgreSQL, Google Cloud API, Cohere API, Figma, Aseprite

- Implemented **AI processing** to create a web-based application using **React.js** and **Flask**, using **Cohere AI** to automatically edit and add sound effects to an uploaded video before saving it to an in-app database.
- Deployed **Flask back-end** and managed the **front-end**, **back-end**, and **PostgreSQL database integrations**.

Education

University of Waterloo

September 2023 – April 2028

Honours Bachelor of Computer Science

Waterloo, ON

- Coursework in object-oriented software development (C++), logic and computation, script automation, test suite development, linear algebra, statistical techniques and modelling, data analysis and visualization.