Rachel Wei

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Education

University of Waterloo   Sep. 2024 - May 2029
Bachelor of Computer Science   *Waterloo, ON*

Wilfrid Laurier University   Sep. 2024 - May 2029
Bachelor of Business Administration, Double Degree Program   *Waterloo, ON*

Technical Skills

Languages: Python, C++, HTML5, CSS3, JavaScript, Lisp, Racket
Technologies/Frameworks: React, Vite, TailwindCSS, Three.js, Framer
Developer Tools: VS Code, Figma, Blender, Git, Arduino

Work Experience

Smiles on Sheppard Dental Office   Nov 2022 – July 2024
Part Time Assistant   *North York, ON*

- Managed ADSTRA database of 2000+ active patient records with sensitive patient information, ensuring data accuracy and privacy compliance
- Processed insurance claims, updated patient files, and maintained efficient data organization
- Trained staff in use of technological tools to streamline office workflows
- Supported patient interactions and clinical tasks, contributing to a positive patient experience

Projects

Personal Website | *Javascript, React, CSS, HTML, THREE.js, Blender TailwindCSS, Figma, Framer*   **October 2024**

- Developed a fully-responsive personal website with React and Three.js to showcase achievements
- Modeled all 3D assets in Blender, including UV mapping, modeling, texture baking, and material design
- Built the entire UI and interactive components independently in Figma, handling both design and development
- Combined technical skills in web and 3D design to deliver a unique, immersive user experience.

ARcademy | *Javascript, React, TailwindCSS, HTML, C++, Arduino, GPT4, Blender, Echo3D, WebXR*   **August 2023**

- First Place Overall, IgnitionHacks 2023: Awarded $1,300 in prizes out of 308 participants.
- Developed an AR-based learning platform for kinesthetic learners, providing interactive 3D simulations and gesture-controlled lessons using a combination of Arduino, Mobilenet-SSD, and WebXR.
- Engineered the front-end using React, Tailwind CSS, Echo3D and integrated an AI assistant using the ChatGPT API to enhance user engagement.

Proteintial | *Python, Javascript, React, AlphaFold2, GPT4, Ethereum, Solidity, CSS, HTML*   **September 2023**

- Won Second Place Overall, RythmHacks 2023
- Developed a web app combining AI and healthcare to model 3D protein structures and securely manage patient data for research.
- Enabled rapid visualization of protein folding, reducing reliance on time-intensive x-ray crystallography.
- Contributed to the integration of blockchain and smart contracts for secure, decentralized access to patient data for researchers.

Involvement

IgnitionHacks Organizer   Mar 2024 – Aug 2024
UI/UX Executive

- Engaged potential participants through strategic social media marketing to maximize Hackathon visibility and excitement.
- Partnered closely with fellow executives to ensure seamless alignment in design and efficient project execution.
- Designed custom merchandise and vibrant social media assets that captured the unique spirit of the event, creating a cohesive and memorable brand experience.