

# RACHEL WEI

Markham, Ontario, Canada

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## Education

### University of Waterloo

*Bachelor of Computer Science*

**3.8/4.0 GPA**

*Expected May 2028*

### Wilfrid Laurier University

*Bachelor of Business Administration, Double Degree Program*

**4.0/4.0 GPA**

*Expected May 2028*

## Technical Skills

**Languages:** Python, C++, HTML5, CSS3, JavaScript, Lisp, Racket

**Technologies/Frameworks:** React, Vite, TailwindCSS, Three.js, Framer, NumPy

**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

- 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

- 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

- 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 **433** participants through strategic social media marketing to maximize Hackathon visibility and excitement.
- Partnered closely with fellow web development 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.