RACHEL WEI

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EDUCATION

University of Waterloo + Wilfrid Laurier University

Expected May 2028

Bachelor of Computer Science + Business Administration Double Degree (BCS/BBA)

- Involvements: IgnitionHacks 2024 (Designer), Hack the North 2024 (Volunteer)
- Awards: IgnitionHacks 2023 (1st Overall), RhythmHacks 2023 (2nd Overall), PC Health App Live Case (Semi-Finalist), Euclid + Canadian Senior Math Competition 2023 (Top 25%)

WORK EXPERIENCE

CI Technologies | Full-Stack Developer Intern

May - Aug 2025 | Vancouver, B.C

- Spearheaded large-scale, multi-application feature to fetch and compare public safety data in Java and Javascript
- Engineered efficient schema with SQL/PostgreSQL to efficiently fetch and store reports of over 1400+ police agencies
- Designed and tested scalable Java RESTful APIs to support seamless communication across 5 applications.
- Communicated implementation ideas proficiently with teammates using **UML Diagrams and Figma prototypes.**

PROJECTS_

WatGuessr.io | Java, Vue/Vuex, AWS S3, Node.js, Spring Boot, SQL/PostgreSQL, Websockets

- Designed and launched a real-time, multiplayer GeoGuessr web game for over 200+ University of Waterloo students.
- Implemented JWT Tokens, Google OAuth and HTTP cookies, ensuring security and preventing sensitive data leaks.
- Developed and Illustrated the frontend with Vue/Vuex, integrating Mapbox API for interactive map-based gameplay
- Reduced deployment preparation time by 80%+ by automating the image upload pipeline with Python and AWS S3.

Viral 3D Portfolio Website | JavaScript, React, THREE.js, Blender, TailwindCSS, Figma, Framer

- Launched an immersive 3D portfolio with React and THREE.js to showcase developer journey to 25,000+ visitors.
- Modeled, UV mapped and texture baked all 3D assets in Blender to ensure a memorable user experience.
- Designed interactive frontend components in React/Figma to showcase a unique personality through design language.

ARcademy | JavaScript, React, Figma, TailwindCSS, C++, Arduino, Blender, Echo3D, WebXR, GPT-4

- First Place Overall, IgnitionHacks 2023: Awarded \$1,300 in prizes out of 308 participants.
- Developed an AR-based learning platform for kinesthetic learners with interactive 3D simulations and gesture-controlled lessons using **Arduino**, **Mobilenet-SSD**, and **WebXR**.
- Designed all front-end assets in Figma, React, TailwindCSS, and Blender; integrated an AI assistant with ChatGPT API.

Bloomscroll | TypeScript, Python, React Native, Node.is, Expo, MoviePy, Pexels API, GPT-4, ElevenLabs API, Nativewind CSS

- Submitted to Deltahacks 2025
- Architected and launched an LLM-powered, educational video generator mobile app in under 24 hours.
- Optimized content delivery by implementing video preloading on scroll, reducing user-perceived wait times by 65%+.
- Built an **Al-automated video editing pipeline** integrating Pexels API for footage, ElevenLabs for audio, Whisper for timestamping, and MoviePy for video concatenation.
- Developed a fully responsive mobile frontend using **React Native and Expo**, delivering a seamless UI across devices.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript/TypeScript, SQL, HTML5/CSS3

Frameworks: React, React Native, Expo, Vue, Vuex, WebSockets, Vite, TailwindCSS, Bootstrap, THREE.js, Spring Boot, Thymeleaf, STOMP.js

Developer Tools: Git, Postgres, MongoDB, Docker, AWS, Postman, Cloudflare Workers, LucidChart, Figma, Blender, IntelliJ, VS Code, Cursor

REFERENCES______ Available upon request