





Jimmy Zheng

University of Waterloo, 2B

 Jimmy's Website
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Technical Skills

- Language: C/C++, Python, Java, JavaScript, TypeScript, Go, HTML, CSS, SQL, Racket, VBA, LabVIEW SDK
- Frameworks/Libraries: React/React Native, Vue.js, Stripe, MERN, Node.js, Express.js, Next.js, RESTAPI, Tailwind CSS
- Tools: Postman, Linux command line, Github/GitLab, Version control (git), n8n, WordPress.org, Docker, SSH

WORK EXPERIENCE

Full-Stack Developer, Co-op

Jan 2026 - Present

[Hanov Solutions Inc.](#), Waterloo, Ontario

(Python, Go, Vue.js, Node.js, JavaScript, TypeScript, Vite, SQLite, Stripe)

- Engineered and deployed core infrastructure for [eh-trade](#), a momentum-based stock analytics SaaS platform, transforming **Python ML** trading models into a production-ready **full-stack** system serving real-time stock screening.
- Designed modular frontend architecture with **Vue 3**, optimizing data rendering and **API** integration patterns, reducing redundant network requests and improving chart and watchlist load performance by **30%** across desktop and mobile.
- Developed secure authentication and subscription infrastructure using **TypeScript** and **Stripe**, enabling recurring billing, gated premium features, and full user lifecycle management from onboarding to subscription control.
- Applied **AI-assisted (Cursor)** development practices across the full stack (**Vue.js, TypeScript, Go, Python**) to shorten iteration cycles and increase feature throughput by **40%**, while maintaining code review standards, modular architecture, and production-grade reliability.

Software Innovation Developer, Co-op

May 2025 - August 2025

[Emerson, NJ](#), Shanghai, China

(C++, Python, LabVIEW SDK, AST, n8n, REST API, RAG, Docker, React)

- Assisted in developing a LabVIEW-to-native-code compiler using **C++ and Python**, enabling graphical programs to be translated into optimized machine code. Improved compilation speed by **30%** and reduced runtime errors by **20%**, accelerating internal development workflows.
- Built automated workflows with **n8n and Docker** to generate and publish circuit documentation, reducing manual preparation time by **70%** and ensuring consistent formatting across all projects.
- Designed and built an internal website using **JavaScript** and **ComfyUI** with **React.js** to auto-generate cartoon avatars from employee photos, increasing internal team profile recognizability by **80%**.

Software Developer, Part-time

Feb 2024 - August 2025

[VolunTrack.Org](#), Toronto, Ontario

(React, JavaScript, Jest, Node.js, Express.js, Postman, HTTP)

- Developed and optimized the homepage and 'About Us' page for VolunTrack using **React, Bootstrap**, and **JavaScript**, improving site load speed by 30% and enhancing mobile responsiveness.
- **Implemented automated testing** using **Python unit tests, Jest, and visual regression testing**, identifying and resolving **15+ bugs** before production release and improving overall code reliability by **50%**.
- **Validated HTTP requests with Postman** by designing and executing structured **API test cases**, ensuring **90%+ accuracy** of backend responses and reducing integration issues across the web application.

PERSONAL PROJECTS

[Keeper Note App](#)

Feb 2025 - June 2025

(React, JavaScript, CSS, Postman, HTTP, Unsplash API)

- Built a **production-style** note application with modular components and reusable state management patterns.
- CRA built with npm scripts + **cross-env** (OpenSSL fix), **ESLint (react-hooks)**; CSS + Google Fonts;
- Composed reusable components (Header, Footer, CreateArea, Note) with lifted state and keyed lists.

EDUCATIONAL BACKGROUND

University of Waterloo, 2B, Waterloo, Ontario

Sep 2024 - April 2029

- Bechloar of Mathematics, Data Science
- Relevant Coursework: Object-Oriented Programming, Calculus, Algorithm Design & Data Structure, Linear Algebra