

Jeffrey Zang

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Education

University of Waterloo

Honours Bachelor of Computer Science (Co-Op)

Sep 2025 – Apr 2030 (Expected)

4.0/4.0 GPA

Experience

Hack the 6ix | React, Express, TypeScript, MongoDB, Azure

Co-Chair

Jan 2023 – Sep 2025

Toronto, ON

- Scaled Toronto's largest hackathon to 1100+ attendees, 200+ projects over 3 years, directing team of 30
- Raised \$50K+ in sponsorship funding from companies such as Microsoft, TwelveLabs, Warp, Linear
- Developed and deployed hacker dashboards using MERN stack, handling hundreds of concurrent requests

10x | React Native, SwiftUI, Supabase, Express, TypeScript

Founding Engineer

Jan 2025 – May 2025

(Remote) Manhattan, NY

- Owned full development of AI app generating podcasts, articles, and quizzes (1,000+ users, profitable)
- Designed concurrent request processing using Supabase, allowing users to generate multiple courses at once
- Partnered directly with Blake Anderson (Founder, Cal AI) to drive 0 → 1 launch with 500K+ social media views

Nokia | Python, Streamlit, Ollama, Docker

Machine Learning Engineer Intern

Jul 2024 – Aug 2024

Toronto, ON

- Architected LLM-powered assistant using Ollama with RAG over Confluence, adopted by 200+ employees
- Deployed Python (Streamlit) dashboard and LLM to Linux server using Docker, CI/CD using GitHub Actions
- Cut computational costs by \$1000/month and reduced deployment time by 80% through optimizing document parsing pipeline

Feroot Security | Vue.js, Node.js, Express

Software Engineer Intern

Jan 2024 – May 2024

(Remote) Waterloo, ON

- Spearheaded launch of web security extension, developing script, tracker, and cookie detection using VueJS
- Secured 500+ web store downloads within 1mo, driving adoption and expanding product visibility
- Refactored documentation site for new product launch, implementing JS markdown parsing and version control

SportsPort | React, Express, TypeScript, MongoDB

Software Developer Intern

Aug 2023 – Oct 2023

(Remote) Toronto, ON

- Developed social feed and scheduling features in MERN stack, contributing to end-to-end platform architecture

uxSino | Vue.js, Java (Spring Boot), MySQL

Software Developer Intern

Aug 2023 – Oct 2023

(Remote) Waterloo, ON

- Implemented multi-account support in database monitoring platform, expanding functionality for enterprise users

Projects

Opus | TypeScript, Swift, Electron, Tailwind, Express, PostgreSQL

Jul 2025

- State-of-the-art computer use agent, executing realtime mouse and keyboard inputs fully in the background
- Implemented novel use of MacOS Accessibility API, AppleScript, JavaScript Injection, and Bash scripting
- Achieved 0 → 1 launch in 3 days, achieving 200,000+ social media views and 500+ users, inbound VC interest

EcoRewards | Remix, ShadCn, TypeScript, Express, PostgreSQL

Sep 2024

- Hack the North winner; AI-powered receipt scanner app, allowing users to scan receipts and earn rewards
- Rebuilt RBC Avion Rewards API, migrated schemas to PostgreSQL, implemented image processing pipeline

motus | Arduino, Python, C++, Raspberry Pi

Sep 2023

- Vision-controlled wheelchair built in 24 hours for Hack the North, enabling users to move through eye tracking
- Integrated AdHawk AR Glasses with Raspberry Pi, constructed wheelchair using 12-volt DC motors, Arduino

Technical Skills

Languages: TypeScript, JavaScript, Python, Swift, Java, C/C++, SQL, Bash, HTML/CSS

Frameworks: React, Next.js, Vue.js, Remix, Electron, Node.js, Express, Flask, Tailwind, Arduino

Developer Tools: Git, Docker, MongoDB, Azure, GCP, Kubernetes, Linux