

Jeffrey Zang

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Education

University of Waterloo

Honours Bachelor of Computer Science (Co-Op)

Sep 2025 – Apr 2030

4.0/4.0 GPA

Experience

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

Jan 2023 – Sep 2025

Co-Chair

Toronto, ON

- Scaled Toronto's largest hackathon to 1100+ attendees creating 200+ projects, directing team of 30 over 3 years
- Handled logistics, sponsorships, judging, and communications at 3 different Toronto university venues
- Raised \$50K+ in sponsorship funding from companies such as Microsoft, Deloitte, Vellum, Warp, Linear
- Developed and deployed hacker dashboards using MERN and Azure, handling hundreds of concurrent requests

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

Jan 2025 – May 2025

Founding Engineer

(Remote) Manhattan, NY

- Owned full development of AI app generating podcasts, articles, and quizzes (2,000+ 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
- Optimized user experience through A/B testing and price experiments using Mixpanel and Superwall, achieving less than 5% churn month/month

Nokia | Python, Streamlit, Ollama, Docker

Jul 2024 – Aug 2024

Machine Learning Engineer Intern

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

Jan 2024 – May 2024

Software Engineer Intern

(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

Projects

🔗 Realistic Obama | Arduino, Python, AutoDesk Fusion, C++, Raspberry Pi, OpenAI Whisper

Jul 2025

- 3d-printed Obama robot featuring realistic speech, mouth movements & wirelessly controlled wheels and arms
- Reverse-engineered voice generation API to clone Obama speech patterns, conversational mode using Whisper
- Finished in just 30 hours for Hack the North, achieved 150,000+ social media views, 4th-most liked Hack the North project all-time

🔗 Opus | TypeScript, Swift, Electron, Tailwind, OpenAI, 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
- Orchestrated 0 → 1 launch in 3 days, achieving 200,000+ views and 500+ beta users, inbound VC interest

🔗 EcoRewards | Remix, ShadCn, TypeScript, OpenAI, 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, OpenAI, MongoDB, Azure, GCP, Kubernetes, Linux