# Jonathan Zhou

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## Education

**Western University** — London, ON
*BESc, Mechatronic Systems Engineering* — *Sep. 2025 – Apr. 2030*

## Experience

**Campus Leader** — Aug. 2026 – Present
*Figma* — *London, ON*

- Build Western's student design community by planning 4+ Figma events and workshops and developing partnerships with campus organizations
- Develop hands-on workshops covering emerging Figma tools including Figma Make, AI, MCP, and Figma Agent
- Coordinate event logistics, partnerships, and community initiatives to expand Figma's presence across Western

**VP of Technology** — Jul. 2026 – Present
*Western Developers Society (WDS)* — *London, ON*

- Lead WDS's Technology portfolio, overseeing technical infrastructure, developer programming, and a team of 4–5 Directors
- Architect and develop WDS's full-stack platform for events, portfolios, and director recruitment using Next.js, Supabase, Neon, Cloudflare, and Vercel
- Develop the technical infrastructure for SPARK, WDS's flagship hackathon, including the landing page, applicant management system, and hacker dashboard supporting hundreds of students

## Projects

**Glance** | *Swift, Core ML, ArcFace, macOS* — Jul. 2026 – Sep. 2026

- Built and launched an open-source macOS face-unlock application using on-device ArcFace recognition and liveness detection
- Implemented encrypted 512-dimensional face embeddings and Keychain-backed authentication without storing user photos or sending biometric data to servers
- Designed a multi-pose enrollment system with liveness checks to reduce photo-based spoofing attempts
- Reached **1.5k+** GitHub stars and **55k+** downloads following an organic launch

**Munch** | *React Native, Expo, PostgreSQL, Figma* — Jan. 2026 – Present

- Co-founded a cross-platform mobile app enabling students to discover and share recipes through a social media-style feed
- Implemented backend architecture using PostgreSQL with scalability in mind
- Collaborated with a 4-person founding team on product design, feature development, prototyping, and MVP refinement
- Generated **200+** waitlist signups through organic reach, validating early product demand

**SwiftER** | *JavaScript, HTML/CSS, Gemini, Python, Express* — Aug. 2024 – Jul. 2025

- Built a real-time ER triage web app displaying live wait times for 40+ Ontario hospitals through an interactive Mapbox interface
- Developed Gemini-powered pre-screening that generates a patient ticket before arrival to reduce pre-ER friction
- Automated hospital wait-time collection using Python and Selenium, serving live data to the frontend through an Express backend
- Named a DMZ x MyBlueprint Microgrant finalist from **100+** submissions and submitted to the Ingenious+ awards

## Technical Skills

**Languages**: Python, Java, JavaScript/TypeScript, HTML/CSS, Swift
**Frameworks**: React, React Native, Firebase, Supabase, Next.js, Expo, Express
**Developer Tools**: Git, GitHub, Figma, VS Code, Cursor, GitHub Copilot, Claude Code