

Jonathan Zhou

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Education

Western University	Apr 2030	Royal Conservatory of Music	2024
BESc, Mechatronics Engineering	London, ON	ARCT Piano and Theory	Toronto, ON

Projects

Munch – Co-Founder | React Native, Expo, PostgreSQL, Figma Dec 2025 – Present

- Building a React Native, cross-platform mobile app enabling students to discover and share recipes and food through a social media-style feed
- Implemented backend architecture using PostgreSQL with scalability in mind
- Collaborating with a 4-person founding team on product design, feature development, prototyping, and MVP refinement
- Generated 150+ waitlist signups through organic reach, validating demand

SwiftER | JavaScript, HTML/CSS, Gemini, Python, Express Aug 2024 - Jul 2025

- Built real-time ER triage web app displaying live wait times for 40+ Ontario hospitals via an interactive Mapbox interface
- Reduced pre-ER arrival friction with Gemini-powered pre-screening that generates a patient ticket before reaching the ER
- Automated wait time collection with Python + Selenium scraper, serving live data to frontend via Express backend
- Reached DMZ x MyBlueprint Microgrant finalist in a pool of 100+ submissions and submitted to Ingenious+ awards

Ripple – BLOOM Designathon | Figma Mar 2026

- Designed an AI chatbot app that intelligently resurfaces existing LLM responses to reduce redundant queries, cutting AI water and energy consumption
- Placed 3rd out of competing teams in a 7.5-hour designathon focused on climate awareness
- Applied UX principles to mirror familiar AI chatbot interfaces and implemented gamification, minimizing learning curve and encouraging sustainable behaviour change

CareAhead – DeltaHacks 12 | Swift, Gemini, Presage API, Figma Jan 2026

- Built wearable-free iOS health app measuring heart rate and breathing via camera using Presage API, persisting data with SwiftData
- Integrated Gemini-powered insight reports comparing today's vitals against personal baselines, generating preventative health insights and trends
- Pivoted project architecture from React web app to Swift mobile app mid-hackathon under a tight 24-hour deadline

Experience

Music Theory Tutor & Piano Instructor – Sonata Music Mar 2022 - Aug 2025

- Managed 30+ music theory and piano students of RCM level 7-10 three terms yearly around exam periods
- Developed patience, clear communication, and time management skills while on academics

Skills

Languages: Python, Java, Javascript/Typescript, HTML/CSS, Swift,
Frameworks: React, React Native, Firebase, Supabase, Next.js, Expo, Express
Tools: Figma, Git, Github, VSCode, Cursor, Github Copilot