

Hojin You

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TECHNICAL SKILLS

Languages: Swift, JavaScript, TypeScript, C/C++, Python, Bash, SQL
Frameworks: Next.js, React, Svelte, Flutter, Node.js
Developer Tools: Git, GitHub Actions, Docker, Supabase, Vercel, AWS, XCode, Android Studio
Technologies: Linux, ESP32, MQTT, Node-RED, MongoDB, Redis, ffmpeg

EXPERIENCE

Software Developer Jan 2025 – Sept 2025
Centre for Applied AI Oakville, ON

- Architected scalable IoT data pipeline using MQTT, Node-RED, Node.js, and MongoDB to support dynamic sensor expansion across multiple edge devices
- Developed real-time monitoring dashboard in Next.js and React, enabling researchers to visualize live biometric data streams from ESP32 devices
- Engineered C++ firmware for ESP32 microcontrollers with configurable sensor sampling rates, allowing data collection frequency adjustments without code changes
- Migrated data processing from Node-RED to Node.js, reducing memory overhead on Raspberry Pi and implementing exponential backoff retry logic to ensure reliable data delivery

Software Developer Mar 2024 – Sept 2024
Centre for Elder Research Oakville, ON

- Developed Flutter mobile app for subscription-based senior art program, delivering instructional video playback and event management to 8 pilot users
- Implemented native calendar integration enabling one-tap event export with reminders for upcoming in-person sessions
- Reduced app load time via image caching strategy for program artwork

Information Systems Technician Nov 2018 – June 2021
Republic of Korea Army South Korea

- Led IT squad of 4–6 technicians supporting 9 departments, overseeing daily operations and onboarding of new members
- Developed batch script automating IP configuration by operational mode, reducing field exercise setup time by 20 minutes – received Regimental Commander’s Commendation
- Administered Oracle database for war game training simulations, managing 50+ user accounts across 2 servers

PROJECTS

Router | *Swift, MapKit, Firebase*

- Built native iOS group destination planner in SwiftUI with MapKit integration for POI selection, reverse geocoding, and an interactive crosshair map picker
- Implemented real-time Firestore sync via snapshot listeners and a Going/Not Going voting system with live attendance counts

E-Commerce Platform | *Next.js, Supabase, Redis, Vercel*

- Built and deployed production e-commerce platform for a small business in Next.js with Redis caching to optimize product listing load times
- Integrated payment processing and product management with a live deployment serving real customers

Mercury | *Swift, GitHub Actions, Homebrew*

- Developed macOS menu bar app in Swift for real-time system temperature monitoring, publicly distributed via Homebrew tap
- Implemented GitHub Actions CI/CD pipeline automating build, versioning, and release workflow on every push to main

EDUCATION

Sheridan College Oakville, ON
Honours Bachelor of Computer Science Sept 2021 – Dec 2025