# Hojin You

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## EDUCATION

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

## 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

**Praiser** | *Swift, Next.js, Supabase*
- Developed cross-platform health application spanning iOS and web to log and view palindromic rheumatoid arthritis flares using patient-reported mobile data
- Built iOS app in Swift and web dashboard in Next.js with shared Supabase backend for real-time data sync and user authentication

**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

## TECHNICAL SKILLS

**Languages**: Swift, JavaScript, TypeScript, C/C++, Rust, Python, Bash, SQL
**Frameworks**: Next.js, React, Svelte, Flutter, Node.js
**Developer Tools**: Git, GitHub Actions, Docker, Supabase, Vercel, AWS, Postman, XCode, VS Code
**Technologies**: MQTT, Node-RED, MongoDB, PostgreSQL, Redis, ESP32, Raspberry Pi, ffmpeg