

GORDON HOMWOOD - SOFTWARE ENGINEER

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Computer Science graduate with hands-on experience across embedded systems, full-stack development, and IT automation. I enjoy building reliable, well-structured software and bring a disciplined approach to delivering solutions in collaborative teams.

Work Experience

Independent Software Engineer (Freelance)

Software Engineer (Part-Time)

2025 – Present

Christchurch, NZ

- Co-founder and software engineer for Instrumental Difference, an educational music app, collaborating with other engineers and an established music coach.
- Contracted to create a website for Charmisa Artisan, a digital Christchurch-based jewelry store.

New Era Technology

Support Engineer (Full-Time)

2025 – Present

South Island Region, NZ

- Diagnosed and resolved network, hardware, and software issues through systematic debugging and root-cause analysis.
- Created and enhanced **PowerShell automation scripts** for domain joining, and developed a **Python user interface** to streamline usability and reduce manual setup time.
- Maintained accurate time logging to support transparent billing and workload tracking.

Retail Experience

Pascoes Riccarton & New World Durham Street (Part-Time)

2021 – 2025

Christchurch, NZ

- Promoted to Deli Supervisor through demonstrated reliability, leadership, and work ethic.
- Led staff, resolved customer issues, and maintained high standards of organisation and operational compliance.
- Achieved 3rd place in sales during peak periods while balancing part-time hours.

Education

University of Canterbury

Bachelor of Science, Computer Science Major - Minor in Classics

2025

Christchurch, NZ

- Relevant Coursework: Software Engineering (Agile/Scrum), Mobile App Development, Human-Computer Interaction, Algorithms & Data Structures, Embedded Systems, Computer Architecture

Software Projects

Step Counter on a Microcontroller

Embedded C | STM32

- Developed an accurate embedded step counter using an onboard accelerometer, implementing UI logic and signal processing with live debugging via Python script.

HammerTime

Website | Java | Spring Boot | JavaScript

- Seven-person full-stack project delivering a livestreaming and chat platform using Scrum, TDD, and merge-request workflows. Features include Stripe payments, account management, and comprehensive testing.

Summit Seekers

Mobile App | Kotlin

- Ongoing website and mobile application aggregating NZ skiing data into a single platform, with AI-driven mountain condition feedback.

Interests and Technical Skills

Languages: C, Java, Python, JavaScript, Kotlin, Swift

Web & Frameworks: Spring Boot, Thymeleaf, Bootstrap, HTML, CSS

Embedded Systems: AVR (ATmega32U2), STM32, TinyGL, UART, I²C, PWM

Practices: Agile/Scrum, SOLID, Test-Driven Development

Tools & Version Control: Git, GitHub, GitLab, Gradle, Makefile, Docker, Linux CLI

Interests: Running (Queenstown marathon finisher in 2025), snowboarding, hiking