

# Aaron Worsnop

[LinkedIn](#) | [GitHub](#) | [aaronworsnop.com](#) | [aaronworsnop@gmail.com](#) | +64 21 061 3350

---

## EDUCATION

**The University of Auckland • BE (Hons) in Software Engineering**

2022 — Present

Major GPA: 8.42/9 (94%) | Dean's Honours List (Top 5% of cohort) | First in Course (OOP)

**Seoul National University • Semester Exchange**

Feb 2024 — June 2024

Prime Minister's Scholarship for Asia (NZ Govt.) Awarded \$12,000+ to represent NZ during exchange.

---

## PROFESSIONAL EXPERIENCE

[aaronworsnop.com/experience](#)

**Software Engineer Intern • Serato**

Nov 2024 — Feb 2025

- Developed an extensive tool to log and filter hardware messages, **used by 20+ developers**, in **C++**, **QML**.
  - Used in all ~10/year** Serato DJ device integrations • Unblocked DJ device integration on Windows
- Refactored **core system interfaces**, removing redundant parameters and return values across **100s of usages**.
- Automated the **deployment of a dynamic library** for future hardware integrations using **Bash** scripts.
- Resolved issues in Serato DJ preventing **all users** from navigating their track libraries using DJ hardware.

**Software Engineer Intern • Tidy International**

Nov 2023 — Feb 2024

- Engineered feature to populate custom document templates, **saving clients 100s of hours/year (~\$81k/y)**
- Spearheaded new CRM product development by configuring its initial **visual, functional and technical architecture**, including page design, iconography, settings, URLs/routing, back-end data and **REST APIs**.
- 25 full-stack user-facing features and fixes** in next-gen SaaS product • **Angular, Typescript, C#** • 160+ Files

**Web Developer • Retirement Planning Ltd**

June 2022 — Jan 2024

- Implemented login, support and content functionality by creating **10+ webpages** in **HTML/CSS, JavaScript**.
  - Enabled business opportunities with **NZ's largest bank** and life insurer by reworking **site-wide security**.  
**20,000 clients and partnership** possible by **implementing encryption (PHP, OpenSSL)** and access policy.
- 

## LEADERSHIP | EXTRA-CURRICULARS

- Google Developer Groups on Campus** President • **700+ Members** • Leading a **team of 20** to run events
    - Organised professional tech conference DevFest (**200 attendees, 20 talks**) • Secured first-ever sponsors
  - IMC Trading Launchpad** Exclusive trading and technology programme in Sydney • **1 of 40 selected**
- 

## PROJECTS

[aaronworsnop.com/portfolio](#)

**Task Scheduler (Team)** Parallel A\* algorithm to find optimal schedules (NP-hard) on N-core CPUs in **Java**.

**EscAlpe Room (Team)** AI riddle game with mini-games using **ChatGPT integration** in **Java, JavaFX**.

- Doubled response times** and prevented freezing by implementing **multi-threading and concurrency**.

**Tic Tac Toe** AI game in **Java** using the MiniMax algorithm with alpha-beta pruning to optimise decisions.

**Strafe** Abstract 3D level-based runner game with level selector made in **Unity with C#**.

---

## SKILLS

- Languages:** Java, C++, Python, TypeScript, JavaScript, SQL, HTML, CSS/SCSS, QML, C, C#, PHP
- Tools and Frameworks:** Agile, DevOps • Angular, React, Node/Next.js, .NET • Git, Docker, Bash, Linux