Aaron Worsnop

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EDUCATION

The University of Auckland • BE (Hons) in Software Engineering   2022 — 2026 (Expected)
Major GPA: 8.45/9.00 (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.**
• **EscAIpe Room (Team)** AI riddle game with mini-games using **OpenAI GPT-3.5 Turbo API** 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
• **Data Structures and Algorithms • TCP/IP Networks • Git, Unix/Linux • Angular, React, Node/Next.js, .NET**