

Alex Manning

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EDUCATION

Victoria University of Wellington

Feb. 2022 - November 2025

Bachelor of Software Engineering — GPA of 8.2 / 9.0

- Received Tangiwai Excellence Scholarship and included on the Dean's List for 2022, 2023 and 2024.

EXPERIENCE

Software Developer Intern | Serato

Nov. 2024 – Feb. 2025

- Collaborated with the team to implement a new hardware mapping framework in **C++** for Serato Studio, enabling the reading and writing of hardware messages to update firmware and application state.
- Developed upon and refactored the note sequence module in Serato Studio, adding new features, fixing bugs, and improving the overall composition experience for users.
- Created and maintained comprehensive unit and integration tests to ensure high code quality, stability, and reliability across the application.

Software Developer Intern | NOW NZ Broadband

Dec. 2023 – Feb. 2024

- Developed and deployed an internal web app that enabled 10+ technical support staff to streamline client and service data retrieval, improving customer service delivery.
- Implemented **OAuth** login, utilised **Apollo Client** to access company data through a **GraphQL** API, and designed custom **React** components.
- Gained experience with CI/CD using **Bitbucket Pipelines**, and used **Docker** to deploy the web app effectively.

Academic Tutor | Victoria University of Wellington

Feb. 2023 – Nov. 2024

- Tutored courses in Intro to Computer Program Design, Data Structures and Algorithms, and Software Design.
- Effectively communicated complex concepts and provided personalised guidance, tailoring teaching methods to accommodate diverse learning styles and skill levels.
- Evaluated and graded student assignments and exams, offering detailed and constructive feedback to improve their coding skills and ensure their academic success.

Duke of Edinburgh Gold Award

Jan. 2017 – Dec. 2021

- Involved demonstrating leadership, teamwork, and resilience through a series of challenging activities.
- Accumulated 150+ hours of volunteer work at the Salvation Army and National Aquarium of NZ, and completed a 21-day Outward Bound outdoors and leadership course.

Technician and Store Assistant | MyDevice (Apple device repair and resale)

Jul. 2018 – Feb. 2022

PROJECTS

The Zen Zone | JavaScript, MongoDB, ExpressJS, React, NodeJS, Tailwind

Feb 2024 – Present

- A modular ambient mixer web app that helps users focus or relax. Features user login, various audio controls and ability to save and load mixes.

Devastation (team) | Java, Spring, WebSockets, React, PixiJS, AWS

Aug 2024 – Sep 2024

- A web-based multiplayer educational game that teaches the Kanban methodology. Players navigate a 2D map of a tech office in teams, completing tickets by strategically managing task priorities and workflow.
- Utilized a client-server architecture with a Spring backend and WebSockets for real-time communication, hosting the server on an AWS EC2 instance for scalable deployment.

Autonomous Vehicle Project (team) | C++, GitLab, Raspberry Pi

Apr. 2023 – May. 2023

- Designed and built a small robotic vehicle, integrating hardware components and wiring, while developing a **C++** program for the vehicle's microcontroller. The program utilised object and color detection from the vehicle's camera feed to control steering and speed, enabling it to autonomously navigate an obstacle course.

INTERESTS

I'm deeply passionate about music, proficient in bass, guitar, and cello, and I'm part of a band called Saloons. Beyond music, I explore hobby electronics with projects including my talking fish, chocolate dispenser, and automatic curtain opener. Staying active, I frequent the gym, enjoy mountain biking adventures, and play social futsal.

TECHNICAL SKILLS

Languages: Java (preferred), C++, Python, JavaScript, HTML, CSS

Tools and Frameworks: Agile, DevOps, Git, Docker, JUnit | React, GraphQL, Node.js, Mongoose