Alex Liang

New Zealand Citizen · Penultimate Year Software Engineering Student
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EDUCATION

The University of Auckland   **2022 – Present**
Bachelor of Engineering (Honours) · ***Software Engineering***   Studies End **Nov 2025**
2023 Dean's Honour List
First in Course - Object Oriented Programming

EXPERIENCE

Spark NZ · *Software Engineer*   *Auckland, NZ ·* **Feb 2024 – Present**
- Automated and maintained **120+ E2E tests,** saving over **$100,000 / 1,000 hours** in manual testing annually and **increasing project test coverage by over 500%**
- Played a pivotal role in exceeding EOFY KPI targets by completing **200+ PBIs and 800+ tickets.**
- Designed and deployed a web application to browse and display test results for auditing purposes, **eliminating the need of manual data handling** for test evidence.
- Successfully scaled and optimised an Azure storage solution, **reducing query times by over 95%**
- Migrated an on-premise database solution to Azure SQL, reducing operational costs and overhead.

Spark NZ · *Software Engineer Intern*   *Auckland, NZ ·* **Nov 2023 – Feb 2024**
- Created automated, end-to-end test scripts for a complex ERP system using Playwright.
- Improved test reliability by optimising existing test scripts, resulting in a **5x decrease in flakiness.**
- Utilised NodeJS libraries to streamline software integration tests, **reducing multiple test execution times by over 50%** and automating the generation of randomised mock data files.
- Leveraged Docker to introduce a process of creating worker agents for local test execution.

EXTRA CURRICULARS

Developers Society · *Competitions Executive*   **Oct 2024 – Present**

Software Engineering Student Association · *Industry Lead*   **Oct 2023 – Present**
- Led a small team in organising industry related events for a tech club with **500+ members.**
- MC and event lead for the largest student run hackathon in New Zealand with **150+ attendees.**

Software Engineering Student Association · *Student Mentor*   **Mar 2024 – Present**

Microsoft x Spark Generative AI Hackathon · *3rd Place*   **Aug 2024**

PROJECTS

TrackTrekker · *Song Suggester* · *TypeScript, React, SpotifyAPI*   *https://alux444.github.io/tracktrekker/*
- Developed the application in collaboration with a UX design student and multiple end users.

KiwiMart · *E-Commerce Store* · *JavaScript, React, Firebase*   *https://alux444.github.io/online-store/*
- Led the development of a full-stack CRUD application in team of 3.

TECHNICAL SKILLS

Languages	Java, TypeScript / JavaScript, Go, C#, Python, SQL, HTML, CSS
Tools	React, Spring Boot, NodeJS, .NET, Playwright, Selenium, Postman
Databases	Microsoft SQL Server, Azure SQL, PostgreSQL, Firebase, SQLite
Other	Git, Docker, Azure, Linux, Microsoft Power Platform, Dynamics365