

Alex Liang

New Zealand Citizen · Software Engineer · Penultimate Year Software Engineering Student

Email · alexliang444@gmail.com | **Mobile** · (+64) 28 423 8890 | **GitHub** · <https://github.com/alux444>

Portfolio · <https://alux444.github.io/> | **LinkedIn** · <https://www.linkedin.com/in/alexliang1>

EDUCATION

The University of Auckland

Bachelor of Engineering (Honours) · **Software Engineering**

2023 Dean's Honour List

First in Course - Object Oriented Programming

2022 - Present

Studies End **Nov 2025**

EXPERIENCE

Spark NZ · Software Engineer

Auckland, NZ · **Feb 2024 - Present**

- Automated **50+ hours** worth of manual testing, saving over **\$100,000 annually**.
- Played a pivotal role in exceeding EOFY KPI targets by completing **200+ PBIs and 800+ tickets**.
- Designed and deployed a Microsoft Power App to display test results for auditing purposes, **eliminating the need of manual data handling** for test evidence.
- Increased **test case coverage by over 400%** by delivering 100+ productionised E2E test scripts.
- Successfully scaled an Azure storage solution, optimising for future performance and reliability.
- Migrated an on-premise database solution to Azure SQL, reducing operational costs and overhead.
- Provided assistance in converting non-technical testers to quality assurance engineers.

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**.
- Designed relational database schemas and managed test data using Microsoft SQL Server.
- Leveraged Docker to introduce a standardised process of creating pipeline agents for test execution.
- Utilised NodeJS libraries to streamline software integration tests and generate test data files.

EXTRA CURRICULARS

Software Engineering Student Association · Industry Lead

Oct 2023 - Present

- Student elected role for a club of over 500 active members and an executive team of 17.
- Led a small team in organising industry related events for the software engineering cohort.
- MC and event lead for the largest student run hackathon in New Zealand with 90+ participants.

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, NodeJS, .NET, Playwright, Cypress, Selenium, Postman

Databases Microsoft SQL Server, Azure SQL, PostgreSQL, Firebase, SQLite

Other Git, Docker, Azure, Linux, Microsoft Power Platform, Dynamics365