# Alex Liang

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## EDUCATION

**The University of Auckland**                                                                                 **2022 – Present**
Bachelor of Engineering (Honours) - **Software Engineering**                          Studies End **Nov 2025**
Grade: **A/A+**

2023 Dean's Honour List, First in Course - Object Oriented Programming

## EXPERIENCE

**Spark NZ**                                                                                                                   *Auckland, NZ*
**Software Engineer**                                                                                               **Feb 2024 – Present**
- Increased **test case coverage by over 400%** by delivering 100+ automated test scripts to production.
- Automated **50+ hours** worth of manual testing labour **monthly**, saving over **$100,000 annually.**
- Provided mentorship in converting non-technical manual testers to test automation engineers.
- Successfully scaled an Azure storage solution, optimising for performance and future-proofing queries.
- Monitored test suite executions, identifying and documenting system errors by raising bug tickets.
- Collaborated with developers in conducting E2E automation testing for a workflow and system UI overhaul.
- Leveraged Docker to introduce a standardised process of creating local pipeline agents.
- Utilised Node libraries to develop scripts for the generation of test data and files.
- Set up scheduled Azure pipelines for automated repopulation of consumable test data.

**Spark NZ**                                                                                                                   *Auckland, NZ*
**Software Engineer Intern**                                                                                  **Nov 2023 – Feb 2024**
- Delivered 40+ automated, end-to-end test scripts to production using **Playwright.**
- Improved test reliability by optimising existing test scripts, resulting in a **5x decrease in flakiness**.
- Designed and deployed an Azure Power App to display test results from an Azure storage container.
- Designed and managed test data using Microsoft SQL Server.

## PROJECTS

**TrackTrekker – Song Suggester** *(React, TypeScript, Spotify API, Cypress)*
https://alux444.github.io/tracktrekker/
- Developed and deployed the application, built on TypeScript React with the Spotify API.
- Utilised CI/CD and Agile practice to gather stakeholder feedback, allowing for continuous improvement.
- Incorporated Cypress into my CI/CD Pipeline for end-to-end testing, ensuring functionality.
- Collaborated with a UX design student to overhaul and refine the design of the application.

**KiwiMart – Full-Stack E-Commerce Store** *(React, Firebase, Tailwind)*
https://alux444.github.io/online-store/
- Successfully planned and managed the project in a team of 3.
- Integrated the communication of the Firebase backend to the React frontend.
- Implemented the functions allowing for CRUD operations via the admin dashboard.
- Automated the deployment of the project through GitHub Actions.

## EXTRA CURRICULARS

**Software Engineering Student Association (SESA)**
Executive – Industry Lead                                                                                       **Oct 2023 – Present**
- Student elected role for a club of over 350 active members, with an executive team of 17.
- Led a small team in organising industry related events for the software engineering cohort.
- Organisational member for SESA x WDCC Hackathon, largest student run hackathon in New Zealand.

**SESA Student Mentor**                                                                                       **March 2024 – Present**
- Provided guidance to software engineering students of my junior cohort as a mentor.
- Assisted mentees with internship searches, balancing social lives and course selection.

## TECHNICAL SKILLS

**Languages** – Java, TypeScript / JavaScript, Go, Python, SQL, HTML, CSS
**Tools** – React, NodeJS, Tailwind, Playwright, Cypress, Selenium, Postman
**Databases –** Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Firebase
**Other** – Agile, CI/CD, Git, Docker, Linux, Splunk
**Cloud** – Azure, Microsoft Power Platform, Dynamics365, Google Cloud