# 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 - SOFTENG281 (Object Oriented Programming)

## EXPERIENCE

**Spark NZ**                                                                             *Auckland, NZ*
**Software Engineer**                                                            **Feb 2024 – Present**
- Increased **test case coverage by over 300%** by delivering **80+** automated test scripts to production.
- Automated **50+ hours** worth of manual testing labour in every test suite run.
- 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.

**imgfx – Image Processor** *(React, TypeScript, Docker, Google Cloud)*
https://imgfx-kljpbesnwq-ts.a.run.app/
- Leveraged Google Cloud Run to deploy the Docker container as a serverless service.
- Enabled service scaling to minimise CPU minutes and save costs.

**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 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.

**Store Assistant at Pak'nSave**                                              **Jan 2022 – Nov 2023**
- Assisted customers and maintained store standards.
- Managed and delegated tasks to teams of up to 5.

**DEVS x GDSC Hackathon 2023**                                                    **July 2023**
- Created a social media app marketed towards fitness enthusiasts in a team of 3 in under 48 hours.
- Was responsible for the planning, development, and deployment of the application.

## TECHNICAL SKILLS & INTERESTS

**Languages** – Java, TypeScript / JavaScript, Python, SQL
**Tools** – React, Firebase, NodeJS, Tailwind, Microsoft SQL Server
**Other** – CI/CD, Git, Docker, Kubernetes, Agile, Linux, Splunk
**Cloud** – Azure, Microsoft Power Platform, Dynamics365, Google Cloud
**Testing** – Playwright, Cypress, Selenium, Postman

**Interests** – Bouldering, parkour, lifting, calisthenics, fine art