Alex McLeod

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Tāmaki Makaurau, Aotearoa

Education

Waipapa Taumata Rau
BSc in Computer Science (A/A+) 8.2/9 GPA

February 2022 → November 2024

(Graduated from secondary school a year early with excellence and a scholarship due to outstanding performance in Calculus, Statistics, and Computer Science)

Experience

PARTLY **Software Engineering Intern**

November 2023 → February 2024

- Worked on the Buyer-Platform team using agile practices for standup, project management, CI/CD pipelines
- Added key functionality to visible production ecommerce platform with a NextJS, Tailwind, and Tanstack Query
- Developed important changes to React SDK and company API with Rust, Tokio, Axum, Scylla used by the entire company's microservices and public customers.

WDCC UOA **Web Development Consulting Club   Tech Director**

October 2023 → Present

- Oversaw technology for largest technology club in Aotearoa with 800+ members
- Directed tech for projects programme with over 25 projects, 300 student software engineers
- Deployed 18 full stack projects and 100+ different services with different tech architectures, languages, databases, storage buckets, apis, and frontends for different teams to GCP and Fly
- Consulted and collaborated with clients and partners including senior oceanic AWS leadership, NZ Police, Potentia, professional teaching staff, and many more non-for-profit charities
- Co-developed with staff and taught official university capstone course workshop, four stage web development course for hundreds of final year computer science students as well as my own Software Architecture Workshop

WDCC UOA **Web Development Consulting Club   Tech Lead**

February 2023 → November 2023

- Lead 10 person student team of software engineers and designers
- Created full stack React, Express, Prisma, Postgres app and deployed it
- Recognised as most successful software project out of 12
- Team members were all promoted to higher roles in the projects programme
- Deployed and used in production by tens of thousands of people

Students for Fair Rent   Cofounder, Treasurer & Tech Lead

August 2023 → Present

- Organised four successful events to highlight issues and gave impactful speech to hundreds of students alongside leaders and representatives of major political parties
- Built full-stack website to share information including interactive elements to highlight the disparity, send emails, and provide students with resources and support with Astro, Typescript, Solid, Deno, MongoDB.
- Managed sponsorships, funding, and accounts for the organisation
- Negotiated with University Leadership

Developers Society   Tech Executive & Mentor

November 2023 → Present

- Created and taught four competitive programming workshops and a Rust workshop
- Mentored two new students in programming, regularly meeting with them and helping them navigate the tech space
- Built organisations website with Astro and Tailwind

Other: University Guide, UN Youth Committee Facilitator, Volunteer for Citizens Advice Bureau, Class Representative Kurutao Innovation Programme

Projects

- **Cilantrify**: Rust, Axum, Postgres, SQLx, S3 full stack app for uploading and sharing recipes
- **Membership Checker**: Typescript, Express, React, Supabase, Postgres fullstack app for managing memberships for clubs
- **Students for Fair Rent**: Astro, Solid, Deno, Express full stack app with game as well
- **Personal Website**: Statically rendered Astro and Tailwind app with self-hosted Strapi CMS and Cloudflare
- **Geostory**: Full stack app for uploading and listening to geographically tagged sound recordings with React, Express, Node, Mongo, and AWS S3
- **Silocoin**: Rust-based cryptocurrency
- **News App**: Parody of Stuff with articles web scraped with cron jobs and parodised by AI
- **Acedia Pictures**: Created business website for local film production company with Astro
- **Web Development Consulting Club Website**: Created Astro-Tailwind app with self-hosted Strapi CMS and AWS S3
- **Developers Society Website**: Created Astro-Tailwind website
- **Contacts App**: Full Stack Mongo, Express, React, Node app as example for student workshop

Skills: Typescript, Rust, Mongo, SQL, React, Solid, Astro, Express, Tanstack Query, GCP, Fly, AWS, GH Actions