

Profile

Recent Software Engineering graduate with hands-on experience designing, building, testing, and deploying full-stack applications. I enjoy solving practical engineering problems across frontend, backend, databases, APIs, security, and application architecture, and I am seeking a graduate software engineering role where I can continue developing while contributing to production digital products. I also bring strong academic performance and experience communicating technical concepts in student-facing roles.

Technical Skills

- **Languages:** Python, JavaScript/TypeScript, SQL, Java, C, C++, C#, Swift
- **Web and app development:** Next.js, React, FastAPI, SwiftUI, Kotlin, HTML, CSS/Tailwind
- **Backend and databases:** Supabase, PostgreSQL, MongoDB, REST APIs, authentication and authorization, relational data modelling
- **Developer tools and workflow:** GitHub, Vercel, Figma, Notion, GitHub Copilot, Claude, OpenAI, AI-assisted debugging and prototyping

Project Experience

Solvr – Full-stack Daily Logic Puzzle App preparing for web, iOS, and Android releases.

2026

- Designed and led development of a full-stack daily puzzle app with 8 logic games across 3 difficulty levels, including authentication, cross-device progress, friends, leaderboards, statistics, hints, puzzle archives, and subscription functionality.
- Architected independent puzzle engines with game-specific state management, constraint-based solvers and validators that verify unique solutions and solvability without guessing before puzzles are published.
- Built a production puzzle pipeline containing 5,256 pre-generated releases, with deterministic HMAC-seeded publication, immutable releases, and server-side fallback generation for dates outside the published inventory.
- Implemented backend security and access controls using Supabase RLS, authenticated API routes, server-side validation, rate limiting, signed completion tickets, database constraints, and entitlement-based premium access.
- Developed automated regression and validation tooling with 53 TypeScript test/verification scripts and ~436 assertions, covering puzzle-engine correctness, session synchronisation, publishing, authentication, social features, billing, rate limiting, and cross-device persistence.

Tech: Next.js, React, TypeScript, Tailwind CSS, Supabase, PostgreSQL, Stripe, Resend, Vercel, Figma, GitHub.

Acadex – Full Stack Peer-to-Peer Book Exchange for Students

2026

- Built a full-stack student marketplace for buying, selling, and trading academic books and materials, with listing creation, search, messaging, reviews, reports, and admin moderation.
- Designed core database relationships for users, listings, images, saved listings, conversations, messages, transactions, reviews, reports, universities, courses, and study areas.
- Implemented marketplace workflows including listing availability, archived/sold states, purchase and trade requests, conversation-linked transactions, and user-facing status changes.
- Developed role-aware functionality for regular users and administrators, including moderation flows and access control using Supabase authentication and Row Level Security concepts.
- Contributed to UI flow planning, feature scoping, testing, project organisation, and deployment preparation for an end-to-end web application.

Tech: Next.js, React, Supabase, PostgreSQL, Figma, Notion, GitHub.

Silver Fern Airways – Full Stack Flight Booking System Web Application

2026

- Built and deployed a full-stack airline booking system with flight search, booking creation, cancellation, invoice display, and passenger booking lookup.
- Designed MongoDB data structures and API routes for scheduled flights, passengers, bookings, seat availability, and unique booking references.
- Implemented business logic for real calendar-based schedules, route filtering, capacity validation, and timezone-aware flight details across NZ, Chatham Islands, and Sydney routes.

- Created a guided user interface to help users search infrequent routes, select flights, and complete bookings through a clear end-to-end workflow.

Tech: Next.js, TypeScript, MongoDB Atlas, Vercel

Education

Google AI Professional Certificate

May 2026

Google / Coursera

Completed practical training in AI fundamentals, prompt design, responsible AI use, and applying AI tools to workplace tasks.

Bachelor of Information Sciences (Software Engineering)

Feb 2024 – Jun 2026

Massey University Auckland

- Recent Software Engineering graduate. Relevant study included programming, object-oriented design, algorithms, databases, web development, software architecture, testing, and full-stack software projects.
- Awarded "Excelling" academic standing (GPA 7.0+, A- average or above) for four consecutive semesters – Massey's recognition for performance well above average.

Certificate in Information Technology and Client Support (Level 5)

Apr 2022 – Aug 2022

Yoobee College

Developed foundations in technical troubleshooting, digital systems, and client-facing technical support.

Experience

Academic Support Assistant – Massey University Auckland

Feb 2026 – Jun 2026

- Reviewed programming and software design work against marking criteria, requiring careful technical judgement and consistency.
- Provided clear feedback that helped students understand issues in their code, design choices, and implementation approach.
- Interpreted different student solutions and assessed whether they met stated technical requirements.
- Strengthened ability to explain technical concepts clearly, which is useful when working with non-technical or mixed-discipline teams.

Residential Assistant – Massey University Auckland Student Accommodation

Jan 2024 – Dec 2025

- Supported students through communication, problem-solving, event support, and issue escalation in a residential environment.
- Adapted communication style across different student needs, backgrounds, and situations.
- Contributed to community engagement through events and social media content.
- Developed confidence working in a high-trust role with responsibility for student wellbeing and standards.

Checkout Operator – Pak'nSave Wairau

Sep 2022 – Nov 2023

- Delivered accurate customer service and transaction handling in a fast-paced retail environment, building reliability, attention to detail, and composure under pressure.

Interests

Outside of software, I enjoy staying active through the gym and sports, including baseball, basketball, biking, tennis, and pickleball. I'm naturally curious and spend a lot of my spare time building side projects, experimenting with new technologies and AI tools, and finding new things to learn. I also enjoy photo and video creation and have worked on content for local businesses and real estate, which gives me another outlet for creativity and working with people.