

# Zihong Liang



Recent Graduate  
Full-Stack Developer  
C#, TypeScript, Python, AI

## Contact

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AI-Powered Portfolio   
<https://kingsley-leung.vercel.app>

## Personal Profile

A high-achieving Computer Science graduate (GPA 7.1/9) who led a six-member team to develop an AI-powered web platform for wildlife conservation. Skilled in full-stack development, recognised for being collaborative and continuously learning new tech stacks like AWS as needed, demonstrated through an internship at Endace and multiple projects. Proficient in DevOps practices, including Git, Docker, CI/CD. Ready to leverage a strong foundation in C#, TypeScript and Python.

## Professional Skills

- **Frontend:** JavaScript, TypeScript, React, Angular, Next.js, HTML, CSS, Tailwind, Bootstrap
- **Backend:** Python, C#, Java, ASP.NET, FastAPI, Express.js, Node.js, Bun
- **Databases & ORMs:** SQL, LINQ, SQLite, Entity Framework (EF Core), PostgreSQL, MongoDB
- **Testing:** Pytest, Vitest
- **DevOps & Tools:** Git, Docker, Linux, Bash, Vercel, Jira, Confluence, Agile, Scrum, Visual Studio, GitHub Actions, Cloudflare Workers, Object-Oriented Programming (OOP), JetBrains (PyCharm, IntelliJ IDEA...), CI/CD, Terraform
- **Others:** Continuously Learning, AI, MCP, Leverage AI Tools (Cursor, Claude Code)

## Education History

### The University of Auckland

Bachelor of Science, Jan 2022 – May 2025

- Major in Computer Science, GPA: 7.1/9 with two Certificates of Outstanding Achievement from the faculty.
- Coursework and Projects: Full-Stack Development, RESTful APIs (Java, C#, Python), SQL, AI/ML, Cybersecurity, Computer Architecture, Data Communications and Security, Operating Systems.
- Class Representative for three courses, recognised for leadership with multiple certificates from the student association.

### The University of Auckland International College

The University of Auckland Certificate in Foundation Studies (Level 3), Jan 2021 – Dec 2021

- Studied Accounting, Mathematics with Calculus, Physics, and Statistics.
- Gained experience in Microsoft Office from different coursework.

## Personal Interests

- Chatting about emerging technologies
- Attending workshops and tech meetups to expand network and boost development experiences
- Developing personal projects
- Enjoying Lo-Fi music
- Solving IT issues for family and friends
- Gaming, Travelling
- Sharing my Cantonese culture

## Professional Experiences

### Intern - Junior Developer

Decoded, Oct 2025 – Present

- Contributed to full-stack application development with TypeScript, Next.js, React, Node.js, Express.js, Vitest, and MongoDB.
- Utilised Git for version control and operated within a Linux environment, using Bash for development and operational tasks.
- Leveraged modern tools like Cursor to accelerate debugging and feature implementation in a collaborative team setting.

### Graduate Associate - Part Time

Tribes Digital, Sep 2025 – Oct 2025

- Engaged in full-stack development using TypeScript, Python, Next.js, React, FastAPI, and PostgreSQL, contributing to the MVP roll-out. Gained hands-on experience with hosting services like Vercel, Render, Neon and Supabase, deploying and managing applications throughout the project lifecycle. Utilised Docker and implemented CI/CD pipelines with GitHub Actions to automate testing and deployment.
- Gained hands-on experience across multiple technological domains, including SaaS-based CRM systems.

### Engineering Intern

Endace Technology, Nov 2024 – Feb 2025

- Architected and developed a modular profile system using Python, FastAPI, and Jinja2 to improve scalability and maintainability, assisting in the deployment and configuration on core network probe products.
- Designed and implemented a dynamic, user-friendly UI with JavaScript and Bootstrap, earning commendations from senior engineers for its intuitive design and positive user experience.
- Worked collaboratively in an Agile team using Jira, Confluence and Bitbucket, while collaborating with seniors to enhance features, resolve bugs, and debug issues, maximising team productivity.

### Professional Notetaker

The University of Auckland, Aug 2024 – Dec 2024

- Translated complex academic lectures into clear, accessible, and structured notes for students registered with Student Disability Services, directly supporting academic inclusivity. Demonstrated high attention to detail and adaptability by delivering quality notes across diverse and technical subjects, consistently meeting strict deadlines.

## Project Experiences

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### CARE Web Platform: AI-Driven Wildlife Conservation

<https://www.capitalise.space/projects/6736f7089df43e2d89de9401>

- Led a 6-member team to design and implement an **HTML, CSS, React** web platform for **AI** image-based pest detection.
- Developed a **full-stack solution**, building the **backend API** with **JavaScript, Node.js** and **Express.js**. Collaborated closely with a **PhD research group** to integrate **machine learning** models.
- Managed the project using **Agile** methodologies, including sprint planning and task tracking, to **ensure on-time delivery**.
- Improved tracking of species like stoats, **contributing to NZ biodiversity protection**.

### PowerGPT – Remote MCP Server for LLM Tool Augmentation

<https://github.com/KingsleyLeung03/power-gpt>

- Built and deployed an **MCP (Model Context Protocol)** server on **Cloudflare Workers** using **TypeScript, Bun, Wrangler, GitHub Actions**, and optional **Docker** for reproducible local runs.
- Delivered **secure, auditable** numeric computation and web content extraction tools to **extend LLM capabilities**, especially in offline or restricted environments.
- Enhanced **reliability and adoption** by centralising computation/fetching, **reducing hallucination risk**, and **providing clear documentation** to connect the MCP to Cloudflare AI Playground and Claude Desktop.

### PhotoRecipe: AI-Powered Recipe Generator

<https://photo-recipe-rho.vercel.app>

- Engineered a **full-stack Next.js application** with **Node.js**, leveraging Firebase Genkit to orchestrate **Google Gemini AI models** for a complete “photo-to-recipe” pipeline.
- Developed a responsive UI using **TypeScript, Tailwind CSS**, and **ShadCN**, managing state with React Hooks and optimising performance with client-side image compression.

### Concert Booking Service

<https://github.com/KingsleyLeung03/concert-booking-service-csharp>

- Developed a full-featured **C#/.NET** concert booking web API using **ASP.NET MVC**, supporting event browsing and ticket management via **RESTful APIs**, implemented with **Entity Framework (EF Core), LINQ** and **SQLite**.

### Game Library Web App

[https://github.com/KingsleyLeung03/cs235-2023-gameswebapp-assignment-zlia403\\_glo501\\_skat149](https://github.com/KingsleyLeung03/cs235-2023-gameswebapp-assignment-zlia403_glo501_skat149)

- Implemented a **Flask**-based app using **Python, SQLAlchemy, Jinja2**, and **Repository Pattern**, implemented **unit and end-to-end (E2E) testing** with **Pytest**.
- Applied **clean architecture principles** and modular separation via **Flask Blueprints**.

## Volunteer Experiences

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### Class Representatives (x3)

The University of Auckland

- Elected as class representative three times (COMPSCI 335, COMPSCI 351, COMPSCI 313).
- Served as a liaison between students, lecturers, tutors, and faculty to communicate feedback and advocate for student needs.
- Recognised with three Certificates of Appreciation from the Auckland University Students' Association for effective representation and contribution.

## Awards & Certifications

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### Pixel Perfect Award - The Figured Internship Experience

Figured, Web Development & Consulting Club (WDCC)

- Awarded in a team hackathon for developing a financial reporting interface that most faithfully aligned with the product requirements and design specifications. Shows strong skills in collaborating, rapid learning and applying new tech stacks.
- Developed within a **Laravel Sail Docker environment**, utilised **PHP, Laravel** for backend API, and **Vue.js, Tailwind CSS** for frontend to create a visually appealing Profit & Loss report featuring interactive graphs for data visualisation.
- Went beyond the core requirements by integrating an **LLM** via the **Laravel Prism** to generate AI-powered financial commentary directly within the report.

### App Integration Workshop - Level 2

IBM

- Developed a deeper understanding of **App Integration** concepts by completing a hands-on lab focused on practical use cases.

### Certificate of Outstanding Achievement (x2)

School of Computer Science, the University of Auckland

- Awarded for exceptional academic performance in Computer Science courses (COMPSCI 230, COMPSCI 235).