

# Zihong Liang

Software Developer | C#, Python & TypeScript |  
Passionate about AI-Driven Problem-Solving

## Contact Info

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AI-Powered Portfolio🌟: [kingsley-leung.vercel.app](https://kingsley-leung.vercel.app)

## Personal Profile

A high-achieving Computer Science graduate (GPA 7.1/9) who successfully led a six-member team to develop an AI-powered web platform for wildlife conservation. Combines hands-on internship experience in core system development at Endace with a proven ability to build complete, AI-driven applications using technologies like Next.js, Copilot and Gemini. Ready to leverage a strong foundation in Python, C#, and modern JavaScript frameworks to contribute to impactful, real-world software solutions.

## Skills

- **Frontend:** 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, Entity Framework (EF Core), SQLite, PostgreSQL, MongoDB
- **Testing:** Pytest
- **DevOps & Tools:** Git, Docker, Linux, GitHub Actions, Vercel, Jira, Confluence, Visual Studio

## Interests

- Chatting about emerging technologies
- Attending workshops and tech meetups
- Developing personal projects
- Enjoying Lo-Fi music
- Solving IT issues for family and friends
- Gaming
- Traveling
- Sharing my Cantonese cultures

## 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

## Work Experience



### Engineering Intern

Endace Technology, Nov 2024 – Feb 2025

- Architected and developed a modular profile system using Python, FastAPI, and Jinja2 to solve challenges with scalability and maintainability in core network probe products.
- Engineered a dynamic, user-friendly UI with JavaScript and Bootstrap, earning commendations from senior engineers for its intuitive design and positive user experience.
- Enhanced system efficiency and maintainability, streamlining the configuration process for end-users and significantly reducing the potential for setup errors.
- Operated within an Agile framework using Jira, Confluence and Bitbucket, which maximised team productivity and ensured project milestones were met consistently.



### 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.



### Information Technology Operator

Triumen Group Zhuhai Branch, Aug 2020 – Nov 2020

- Provided critical front-line IT support for all hardware, software, and network issues, minimising downtime and ensuring smooth daily operations for the entire office.
- Increased operational efficiency by rapidly diagnosing and resolving technical problems with printers, routers, and desktop applications.

## Project Experiences

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

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

- **Led a 6-member team** in developing a **React/Express.js** web platform for AI image-based pest detection
- Backend built with **JavaScript** and **Sequelize**, integrated **machine learning** with support from a PhD group
- Improved tracking of species like stoats, **contributing to NZ biodiversity protection**

### PhotoRecipe: AI-Powered Recipe Generator

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

- Engineered a **full-stack Next.js** application leveraging **Firebase Genkit** to orchestrate **Google Gemini AI models** for a complete “photo-to-recipe” pipeline
- Implemented core features including AI-driven ingredient identification from photos, dynamic recipe generation with detailed instructions and nutritional information, and unique AI-generated dish images
- Developed a responsive UI using **TypeScript**, **Tailwind CSS**, and **ShadCN**, managing state with **React Hooks** and optimising performance with client-side image compression

### vCard Contact Generator

<https://vcardcontactgenerator.vercel.app>

- **React**, **Next.js**, **Tailwind CSS** app deployed on **Vercel**, automated CI with **GitHub Actions**

### Concert Booking Service

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

- **C#** and **ASP.NET MVC web app** supporting event browsing and ticket management via **RESTful APIs**, implemented with **Entity Framework**, **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)

- **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

### 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

### Cloudflare TechLabs Certificate of Attendance

Cloudflare

- Participated in “Diary of a Cyber Breach Investigator” workshop, gaining insight into real-world incident response, threat modelling, and breach mitigation strategies

### Certificate of Outstanding Achievement (x2)

School of Computer Science, the University of Auckland

- Awarded for exceptional academic performance in Computer Science courses

### Class Representative Certificates of Appreciation (x3)

Auckland University Students' Association (AUSA)

- Recognised for leadership and effective communication on behalf of peers