

Zihong Liang

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

Contact Info

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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

- **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