

Zihong Liang

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

Contact

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Location:
Auckland, New Zealand

GitHub:
github.com/KingsleyLeung03

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

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

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
- **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.

Professional Experiences

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.
- **Enhanced system efficiency and maintainability**, streamlining the configuration process for end-users and significantly reducing the potential for setup errors.
- **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.

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.
- Investigated and resolved technical problems with printers, routers, and desktop applications to increase operational efficiency.

Project Experiences

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

- 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

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

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).