Fei Liu

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SKILLS

PROGRAMMING LANGUAGES: Java, JavaScript, Python, HTML, CSS, SQL

TOOLS/FRAMEWORKS/LIBRARIES: Git, Spring Boot, Flask, Junit, Microsoft Azure Cloud, React, LlamaIndex, Langchain, HuggingFace, OpenAI, ClaudeAI

LANGUAGES: Mandarin (Native), Vietnamese (Native), English (professional proficiency)

EDUCATION

MSc Advanced Software Engineering — King's College London   **Sep 2024 - Sep 2025**
London, United Kingdom
Grade: Merit – 69%

BSc Applied Software Engineering — Cardiff University   **Sep 2021 – Jun 2024**
Cardiff, United Kingdom
Grade: Upper Second Class Honours (2:1) – 67%

EXPERIENCE

STEM Ambassador — technocamps   **Oct 2021 – Jun 2024**
Cardiff, United Kingdom
- Promoted STEM to children and young adults around schools and libraries in Wales.
- Delivered workshops on Lego Spike, Microbit and simple HTML and CSS.

Student Academic Representative — Cardiff University   **Sep 2022 – Jun 2023**
Cardiff, United Kingdom
- Gathered feedback from students and discussed with staff members at regular Student Staff Panels.

PROJECTS

Dissertation - Exploring prompt engineering strategies to enhance the capabilities of LLMs in translating code using Test-driven Development   **Apr 2025 – Aug 2025**
- Explored LLM capabilities using Test-Driven Development (TDD) as a prompting strategy.
- Explored how TDD provides LLMs with concrete behavioural expectations in the form of test cases.
- Explored how collaboration between LLMs in test case generations and code translation improve the translation performance.
- Explored how the number of test cases affect the LLM's ability in translating code accurately.

Student Information Chatbot   **Jan 2024 – Apr 2024**
- Worked in a team to develop a useful AI chatbot for Cardiff University's students.
- Scraped the needed data from university's related websites to train the chatbot using LlamaIndex and OpenAI.
- Allow users to fetch their chat history if logged in.
- Implemented a small AI admin chatbot for university IT staff using ClaudeAI to gather important data to improve the information-finding experience of the students.
- Optimised the data process to provide a fast and responsive user experience for the users.
- **Website link: https://cu-chatbot.kavin.rocks.**

Energy Visualisation Project   **Oct 2024 – Dec 2024**
- Implemented an application that visualise large amount of CSV data into responsive graphs/charts.
- Allow users to be able filter out unnecessary data while viewing the data.
- Allow admin to import new CSV data to ensure the data is always up to date.
- Optimised the data process to provide a fast and responsive user experience for the users.

Warehouse Racking System Website   **Jul 2023 – Aug 2023**
- Designed a website for a company that manufactures warehouse racking systems.
- Used Spring Boot as the backend tools.
- Produced a responsive website that included three different languages.
- Deployed the website onto Microsoft Azure Cloud.
- **Website link: https://www.jfrack.com.**

Call Blocker App   **Jan 2023 – Mar 2023**
- Developed an app that was able to detect incoming spam calls and block it automatically.
- Allowed users to find out the details of the phone number and report a scam phone number.