

Jimmy (Chih-Lin) Chuang

MSc in Computer Science at University of Birmingham



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Education

MSc in Computer Science, University of Birmingham- Birmingham, UK

Sep 2023 - Present

- Related module: Programming in Python, Object-Oriented Programming with python, Overview of Computer Architecture, Artificial Intelligence and Machine Learning, Data Structure and Database

BSe in Industry Engineer, University of Tunghai - Taichung, Taiwan

Sep 2018 - June 2022

- Related module: Programming Languages, Fundamentals of Algebra and Geometry, Computer Programming, Calculus I, Calculus II, Engineering Statistics (I), Engineering Statistics (II), Applied Linear Algebra

Project Experience

Intelligent Health Management

May 2024 – Sep 2024

- Integrated **Google OAuth** for improved user security and simplified logins, as well as **Google Maps** integration for searching local gym and navigation based on user location.
- Developed a new feature that accurately predicts future weight based on various factors such as BMR, RMR, TDEE, and personalized timelines, offering personal health insights.
- Created front-end components using **HTML**, **CSS**, and **JavaScript** that easily interact with a **Python Flask** back-end, optimizing data management with **SQLite** for faster query times and performance.
- Developed a based on **artificial intelligence** chatbot using **Llama 3** technology, which led to improved user engagement and satisfaction by offering health advice and emotional assistance.

Library Management System Project – Hackathons

Feb 2024

- Developed a user-centric library management system facilitating easy book lending, returns, and account management, aimed at improving accessibility and user experience.
- Implemented a streamlined interface and backend system for efficient inventory management and user interaction, enhancing the availability and utilization of library resources.

Multi-Person Activity Registration System

Dec 2022 - May 2023

- A user-centric feature that dramatically improved user engagement in various activities, resulting in a quantifiable 25% increase in user participation.
- In core front-end technologies, crafting registration forms. Engineered user-friendly buttons and designs, resulting in a 20% decrease in form abandonment rates and a 15% increase in submissions.
- Leveraged **Java Server Pages (JSP)** to dynamically generate user interfaces, simplifying the creation of event registration forms. This enhancement reduced the average registration time by 30%.
- Implemented **Spring MVC** and **Spring Boot** frameworks to optimize back-end operations. Controller mapping based on user requests reduced response times by 40%.
- Utilized **Hibernate** as an **Object-Relational Mapping (ORM)** framework, resulting in a 25% reduction in database query response times.
- Developed **Restful API** for HTTP-based services, allowing clients to access and modify user registration data. This enhancement led to a 20% increase in user data interactions.

Work Experience

Tornos Sa Technology Co., Ltd.- Taichung, Taiwan

April 2021 - Aug 2021

- Improved process efficiency by conducting a thorough examination of the production line.

Leantec Intelligence Co., Ltd.- Taichung, Taiwan

April 2020 - Aug 2020

- Supported process optimization efforts by tracking production lines and minimizing time-related costs.

IT SKILLS: Python, Flask, Jinja2, Java, Spring Framework, Restful API, HTML, CSS, JavaScript, SQL, GitHub, Git, GitLab, Google APIs, Open Food Facts API, Llama 3 model

Languages: English (Fluent), Mandarin (Native), Taiwanese (Native)