Jimmy (Chih-Lin) Chuang

MSc in Computer Science at University of Birmingham

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Eduaction

MSc in Computer Science, University of Birmingham- Birmingham, UK   Sep 2023 – Sep 2024

- related to *Python, Flask, JavaScript, Data Structure, Artificial Intelligence and Machine Learning, and Computer Systems*
- Grade : *Merit (2:1)*

BSe in Industry Engineer, University of Tunghai - Taichung, Taiwan   Sep 2018 - Jun 2022

- related to *C Language, Python, Engineering Statistics, 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 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 (Internships)   April 2021 - Aug 2021
- Improved process efficiency by conducting a thorough examination of the production line.

Leantec Intelligence Co., Ltd.- Taichung, Taiwan (Internships)   April 2020 - Aug 2020
- Supported process optimization efforts by tracking production lines and minimizing time-related costs.

Skills

- **Programming Languages**: Python, Java, JavaScript, HTML, CSS, C
- **Frameworks**: Hibernate Spring MVC, JSP, Spring Boot, Spring, Bootstrap, Flask
- **Databases:** MySQL, SQLite, Microsoft SQL Server, DynamoDB Cloud
- **Development Tools**: Git, GitHub, GitLab, GitHub Actions, CICD, Docker, UML