

Jimmy (Chih-Lin) Chuang

MSc in Computer Science at University of Birmingham

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UK Post-Study Visa (expires Jan 2027)

Eduaction

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| MSc in Computer Science, University of Birmingham- Birmingham, UK | Sep 2023 - Present |
| BSe in Industry Engineer, University of Tunghai - Taichung, Taiwan | Sep 2018 - Jun 2022 |

Project Experience

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| Intelligent Health Management | May 2024 - Sep 2024 |
| <ul style="list-style-type: none">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. | |

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| Library Management System Project – Hackathons | Feb 2024 |
| <ul style="list-style-type: none">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. | |

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| Multi-Person Activity Registration System | Dec 2022 - May 2023 |
| <ul style="list-style-type: none">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

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| Tornos Sa Technology Co., Ltd.- Taichung, Taiwan (Internships) | April 2021 - Aug 2021 |
| <ul style="list-style-type: none">Improved process efficiency by conducting a thorough examination of the production line. | |
| Leantec Intelligence Co., Ltd.- Taichung, Taiwan (Internships) | April 2020 - Aug 2020 |
| <ul style="list-style-type: none">Supported process optimization efforts by tracking production lines and minimizing time-related costs. | |

Skills

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