HWANG MEI QI, FELICIA

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Education

National University of Singapore   **Aug 2023 - May 2027**
Bachelor of Computing in Computer Science (Honours)
- **GPA**: 4.75/5.00
- **Coursework**: Data Structures & Algorithms, Object-Oriented Programming, Data Management & Visualisation, Computer Organisation, Computer Networks
- Looking for Part-Time internship during Jan - May 2025 | Full-Time internship during June - Aug 2025

Technical Skills

Languages: Python, Java, JavaScript, Typescript, SQL, R, C, C#
Frameworks: ReactJS, NextJS, MongoDB, TailwindCSS, .NET
Tools: Git, UiPath, Jira, Tableau, PowerBI, Figma

Internship

Digital Transformation Intern | *Civil Aviation Authority of Singapore*   **June 2024 – Aug 2024**
- Spearheaded the development and implementation of successful RPA workflows using UiPath and .NET for custom activities and data extraction techniques, leading to an 83% boost in workplace efficiency.
- Optimised IT request workflows by creating storyboards and collaborating with team managers to integrate suitable technology tools, saving over 10 hours of manual work per week.
- Conducted competitive analysis of six IT Service Management platforms, influencing the selection of a scalable platform for a potential rollout to 1,000+ staff members, ensuring it meets long-term organisational needs.

Work Experience

Software Engineer | *NUS Fintech Society*   **Aug 2024 – Present**
- Assisted in developing web-based applications using NextJS, Express, and Prisma, transforming designer prototypes into functional interfaces.
- Utilised Jira for task management and Confluence for project documentation, to streamline team collaboration.

Undergraduate Teaching Assistant (CS2030) | *NUS School of Computing*   **Aug 2024 – Present**
- Mentored 20 students in lab sessions on functional and object-oriented programming in Java, guiding them through complex concepts.
- Provided detailed feedback on coding assignments, helping students improve code quality and design patterns, increasing their understanding of good software engineering practices.

Web Developer | *Advisory Singapore*   **Feb 2024 – Present**
- Improved UI/UX during the new site migration to the Ghost platform by using TailwindCSS to redesign key elements, enhancing the overall user experience.
- Resolved bug issues on a weekly basis, reducing potential errors, and ensuring the platform is ready for a smooth and successful future launch.

Projects

Nurse Training Speech-to-Speech Model | github.com/MEDiMakers
- Collaborated with Tan Tock Seng Hospital to develop an educational model for quizzing and training nurses, featuring real-time speech recognition and response generation to enhance learning efficiency.
- Designed and developed the interface using ReactJS, integrating with the backend built on NodeJS and MongoDB.

MechHub E-Commerce Platform | github.com/feliciahmq/orbital-mechhub
- Developed a full-stack e-commerce platform using ReactJS and Firebase, including social media features like following, liking, forums, and real-time chat. Achieved Apollo (Advanced) level in the NUS Orbital program.
- Created unit testings with Jest and React Testing Library, and conducted user testing, which revealed 80% of users were likely to use the platform.
- Utilised Zustand for state management and implemented CI/CD pipelines for automated deployments, resulting in 20% improvement in application performance and a 35% reduction in deployment errors.

Leadership / Extracurricular

NUS Computing Student Ambassador   **Aug 2023 – Present**
- Represented NUS Computing at outreach events, providing insights to prospective students and collaborated with faculty to support recruitment efforts through promotional materials and online content.