

HWANG MEI QI, FELICIA

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Education

National University of Singapore

Aug 2023 - May 2027 (Expected)

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, Introduction to AI and Machine Learning

Technical Skills

Languages: Java, Python, C, C#, HTML/CSS, JavaScript, Typescript, SQL

Frameworks: ReactJS, NextJS, ExpressJS, NodeJS, MongoDB, PostgreSQL, .NET Core

Tools: Git, UiPath, Agile (CI/CD), RESTful (Postman), DevOps (Docker)

Internship

Incoming Software Engineer Intern | *Monetary Authority of Singapore*

Jan 2025 – Present

- Developing a data cataloguing solution with ReactJS for user-friendly interfaces, .NET Core APIs for backend services, PostgreSQL for data management, and integrating cloud platforms like AWS and Azure.
- Conducting unit testing using .NET Core frameworks and automating UI testing with Selenium to ensure functionality and quality.

Digital Transformation Intern | *Civil Aviation Authority of Singapore*

June 2024 – Aug 2024

- Spearheaded the development and implementation of successful RPA workflows using UiPath 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 and TailwindCSS, transforming designer prototypes into functional interfaces.

Undergraduate Teaching Assistant (CS2030) | *NUS School of Computing*

Aug 2024 – Nov 2024

- Mentored 24 students in lab sessions on functional and object-oriented programming in Java, and provided feedback on coding assignments, helping students improve code quality and design patterns.

Web Developer | *Advisory Singapore*

Feb 2024 – Jan 2025

- Improved UI/UX during a platform migration to Ghost by redesigning components with TailwindCSS, enhancing the overall user experience.

Projects

Full Stack Open | *Online Course by University of Helsinki*

Dec 2024

- Developed full-stack applications with React, NodeJS and MongoDB, implementing REST APIs and integrating Redux and Redux Query for state management.
- Tested applications with Jest, Vitest and Playwright, ensuring robust unit, integration and end-to-end testings.
- Leveraged Docker for containerizing applications and used Docker Compose to manage multiple containers.

MechHub E-Commerce Platform | *Achieved Apollo (Advanced) level in the NUS Orbital program.*

Aug 2024

- Developed a full-stack e-commerce platform using ReactJS and Firebase, including social media features like following, liking, forums, and real-time chat.
- 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

House Committee | *Publicity Head*

Nov 2023 - Present

- Led a team of 10 in marketing initiatives to increase engagement for events through creative campaigns and materials.