

# 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](https://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](https://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.