

# HWANG MEI QI, FELICIA

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## Education

### National University of Singapore

Expected May 2027

*Bachelor of Computing in Computer Science (Honours)*

- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Data Management & Visualisation, Computer Organisation, Computer Networks, Introduction to AI & Machine Learning

## Technical Skills

**Languages:** Java, Python, C, C#, SQL (Postgres), JavaScript, TypeScript, R

**Frameworks:** React.js, Next.js, Express.js, Node.js, MongoDB, TailwindCSS

**Libraries:** Numpy, Pandas, Matplotlib, TensorFlow, Scikit-Learn

**Tools:** Git, Docker, RESTful APIs (Postmas), UiPath

## Experience

### Monetary Authority of Singapore

Jan 2025 – Present

*Software Engineer Intern*

- Currently working on data migration from Elastic Stack to GovTech StackOps, focusing on DevOps practices.

### NUS School of Computing

Aug 2024 – Present

*Teaching Assistant (Object-Oriented Programming)*

- Served as a teaching assistant for CS2030 (Programming Methodology II), co-taught lab sessions on object-oriented and functional programming for a class of 24 students.
- Mentored students in designing and implementing a Discrete Event Simulator for a restaurant, managing customer service processes and queues.

### Civil Aviation Authority of Singapore

June 2024 – Aug 2024

*Digital Transformation Intern*

- Developed RPA workflows using UiPath for custom activities and data extraction, improving 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.

## Projects

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

- Developed a full-stack e-commerce platform using React.js and Firebase, including social media features like following, liking, forums, and real-time chat.
- Designed a relational database schema for the Firestore NoSQL database. Created unit testings with Jest and React Testing Library, and conducted user testing.
- Utilised Zustand for state management and implemented CI/CD pipelines for automated deployments.

### NUS Fintech Summit 2025

- Collaborated in a team of 5 to develop a website using Next.js and TailwindCSS, transforming designer prototypes into responsive and functional interfaces.
- Launched the website for a prominent hackathon with over 200 participants, supported by major sponsors.

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

- Developed a phonebook application with React frontend and a REST API backend using Node.js and Express.js. Integrated MongoDB and Mongoose for data storage.
- Created a blog list application with secure user authentication, allowing users to create, like and delete blog posts. Conducted unit, integration and end-to-end testing with Jest and Playwright.