

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 | Final Year Capstone Project

- 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.