HWANG MEI QI, FELICIA

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Education

National University of Singapore **Expected Dec 2026**
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
- Availability: Full-time Internship, May - Nov 2025

Technical Skills

Languages: Java, Python, C, C#, SQL (PostgreSQL), JavaScript, TypeScript, R, HTML, CSS
Frameworks: React.js, Next.js, Express.js, Node.js, MongoDB, TailwindCSS, .NET
Libraries: Numpy, Pandas, Matplotlib, TensorFlow, Scikit-Learn
Tools: Git, Docker, RESTful APIs (Postman), UiPath

Experience

Monetary Authority of Singapore **Jan 2025 – Present**
Software Engineer Intern

- Enhanced an enterprise architecture platform using TypeScript, React-Admin and Material-UI for improved functionality.
- Developed Python automation scripts to streamline the preparation of development data environments, reducing manual effort.
- Created SQL queries to perform CRUD operations on the database.

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.
- Mentored students in designing and implementing a Discrete Event Simulator for a restaurant, managing customer service processes and queues.
- Reviewed and provided feedback on 24 student submissions, improving coding style and adherence to best practices.

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.
- Collaborated with team managers to streamline IT request workflows, integrating automated solutions that saved over 10 hours of manual work per week.
- Communicated insights and recommendations through reports and presentations, ensuring alignment with digital transformation needs.

Projects

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

- Developed a full-stack e-commerce web application 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.

Chatbot for Task Management

- Developed a chatbot in Java, enabling users to manage tasks via Command Line Interface and Grapical User Interface with JavaFX.
- Utilised Gradle for build automation and dependency maanagement and created unit tests with JUnit.

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 front-end and a RESTful API back-end using Node.js and Express.js. Integrated MongoDB and Mongoose for data storage and retrieval.