Mavis Hye Xuan Chia

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Education

Technological University of Shannon Athlone, Ireland

Bachelor of Science (Honors) in Software Design with Artificial Intelligence for Cloud Computing

Dean's List for 2023/24, Current Grade: 89.66

Graduation date: *May 2026*

Relevant Coursework: Software/Web development, Databases, REST Api, Agile methodologies, Machine Learning

Experience

Ericssons Athlone, Ireland

Software Developer Intern Jan 2025 – Aug 2025

- Transitioned legacy system from monolithic to microservice architecture, accelerating feature rollout by 85% using Python, TypeScript, Redis, and Docker.
- Automated software modelling and document generation pipelines leveraging docxtpl, StringTemplate, and custom Python workflows, reduced document processing time from 27 days to 3 days.
- Developed an internal RAG-based chatbot, building a custom vector database and integrating Redis, Neo4j, and Quadrant for knowledge graph search and retrieval.
- Collaborated in Agile environment with sprint planning, code reviews, Git-based workflows, and daily stand-ups to ensure iterative delivery.

Summer intern June 2024 – August 2024

- Built a transition year program website as a guide, collaborating with a cross-functional team using Python, HTML, and CSS.
- Authored comprehensive documentation for project files, ensuring clarity and ease of use for future developers.
- Developed a 3D VR office simulator using Unity and C# for Ericsson's 50th anniversary, engaging over 100 employees in interactive sessions.

Projects

NASA Space Apps Challenge Athlone Website [Team project] August 2024 – October 2024

Next.js, React, Tailwind CSS, Framer Motion, Git, Vercel

- Collaborating with a global team to develop and maintain the official hackathon website, utilizing Next.js and React for engaging UI elements.
- Working with the project manager and using Git for smooth integration across time zones.
- Optimizing website performance and user experience and deploying on Vercel for testing and iterative feedback.

Skills & Interests

Languages/Frameworks: JavaScript, Python, Java, C#, HTML/CSS, MySQL, React, Typescript, Spring Boot

Tools: VS Code, Eclipse, PyCharm, Git/GitHub, Vercel, Unity, MongoDB, Microsoft Office, Archi, Docker, LangChain

Languages: English (fluent), Mandarin (native), Malay (fluent), Cantonese (fluent)

Achievements & Certifications

- **Oracle Certified Associate: Java Foundations (1Z0-811)** – *Issued by Oracle*
- **Cisco Jam 2024 (1st place):** Solved challenging Python problems as a team.
- **NASA Space Apps Challenge 2025 (2nd Place) :** Developed a Pollen Alert Map using Google Pollen API, Google Maps API, and NASA Earth Data (MODIS NDVI). Built a forecasting pipeline extending pollen predictions up to 12 periods by integrating linear trend analysis with seasonal and environmental fluctuation.