Wye Zhen Ng

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Professional Summary

Aspiring Software Engineer with strong technical foundations in backend development, cloud computing, and DevOps practices. Experienced in delivering projects using Docker, React, Node.js, and databases, with measurable improvements in efficiency and accuracy. AWS Cloud Practitioner certified and skilled in Agile workflows, with proven leadership and cross-functional collaboration experience. Driven to contribute to dynamic teams and grow into advanced software engineering roles.

Experience

Technological University of the Shannon (TUS), IT Intern   Jan 2024 – May 2024

- Designed and implemented a server-side web & mobile app for a meat supplier, enabling real-time shipment tracking and reducing manual reporting errors by 30%.
- Containerized applications with Docker, standardizing deployments and reducing environment setup time by 40%.

Sheraton Athlone Hotel, Food & Beverage Team Leader   Mar 2022 – Jan 2025

- Led and coordinated a team of up to 20 staff across banquets and restaurant settings, ensuring smooth service for events hosting up to 400 guests.
- Introduced new staff training workflows, cutting onboarding time by 25% and improving service consistency.
- Collaborated across departments, ensuring 100% event readiness for conferences and large-scale functions.

Projects

Integrated Telemedicine Platform

- Built a secure telemedicine app featuring video consultations with end-to-end encryption.
- Implemented AI-powered symptom assessment combining ML-based disease prediction and LLM-based triage, improving diagnostic suggestion accuracy by 15% during testing.
- Tech stack: React.js, Node.js, MongoDB, Docker

Shipment Tracking App for Meat Supplier

- Developed server-side web and mobile app using PHP, Java, jQuery, Docker, and MySQL for data management.
- Reduced logistics tracking errors by 20% by integrating MySQL for real-time data validation.

NewsAgent App with DevOps

- Built a Java app for real-time news updates, achieving 85% unit test coverage and streamlined CI/CD practices.

Docker Deployment Project

- Containerized a website for seamless cross-platform deployment, reducing setup time by 30% and improving scalability.
- Standardized environment configurations, ensuring 100% consistency across development and production systems.

Achievements

- Hackathon participant: 12th NASA Space App Challenge and other coding competitions
- Awarded Academic Excellence Certificate (TUS) for consistent grades above 70%

Education

BSc	**Technological University of the Shannon (TUS)**, Software Design with AI for Cloud Computing	Athlone, Ireland Sept 2021 – June 2025

- GPA: Year 1 (78.58), Year 2 (75.08), Year 3 (79.83), Year 4 (75.83) First Class Honors

Pre-U	**Nilai University**, Foundation in Science and Information Technology	Nilai, Malaysia Jan 2020 – Dec 2020

- GPA: 3.92 out of 4 (Achieved Distinction)

Certification

IBM, IBM Cloud Computing Fundamentals (Issued: 03/2025)
IBM, Best Practice for Building Container Images (Issued: 03/2025)
AWS, Certified AWS Cloud Practitioner (Issued: 20/04/2025)

Skills

Programming: Python, Java
Web Development: HTML, CSS, JavaScript, React.js, RESTful APIs, XML
Databases: SQL, MongoDB
Cloud & DevOps: Docker, Cloud Computing fundamentals, CI/CD pipelines, Microservices, Distributed Systems
Software Engineering: SDLC, Agile, Git
Data & ML: Data Mining, Algorithms & Data Structures, Machine Learning workflows (NumPy, Pandas, Scikit-learn)
Networking: Strong understanding of networking protocols and concepts

Languages

English: Native Speaker
Mandarin: Advanced Speaker
Malay: Advanced Speaker
Cantonese: Intermediate Speaker

Interests

- Running (completed multiple half-marathons)
- Travel
- Cultural experiences