Ernest Heng

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LINKS

Portfolio Website, LinkedIn, GitHub

PROFILE

I am currently in my **second year** at **Singapore Management University**, pursuing a **Bachelor of Science in Information Systems**, with a specialization in **Product Development**. Alongside, I am undertaking a second major in **Computing Studies**, focusing on the **Artificial Intelligence Track**. This stage of my academic journey has allowed me to deepen my understanding of cutting-edge technologies and refine my skills in developing innovative solutions.

I am **available for an internship** from **30 April 2025 to 17 August 2025** and am eager to contribute my skills and knowledge to projects.

EMPLOYMENT HISTORY

May 2024 — Aug 2024

Frontend Software Engineer, School On Cloud Asia
Singapore

- Developed and optimized reusable, responsive components for the company's front-facing website using modern web technologies.
- Integrated data seamlessly from the Content Management System (CMS) 'Contentful' to deliver dynamic and user-friendly interfaces.
- Spearheaded a vanity domain application project, collaborating with cross-functional teams to streamline domain setup and improve user experience.

Jul 2021 — Sep 2021

Administrative Assistant, Marshall Cavendish
Singapore

- Collaborated in the digital transformation of hard-copy primary school assessment books into interactive E-books, enhancing accessibility and engagement for users.
- Managed and maintained the SQL database, ensuring accurate and efficient storage of content and metadata for E-book projects.

Mar 2021 — May 2021

System Administrator, Dun & Bradstreet
Singapore

- Provided day-to-day IT support, efficiently troubleshooting and resolving technical issues to ensure smooth business operations.
- Set up and configured new devices (desktops, laptops, and peripherals) for employees, ensuring secure and efficient onboarding.
- Conducted routine network maintenance, identifying and resolving performance bottlenecks to maintain system uptime and reliability.

Oct 2020 — Mar 2021

Security Operations Specialist, Centre for Strategic Infocomm Technologies (CSIT)
Singapore

- Developed a Python script to automate the identification of Snort rules within IT security reports, significantly improving the efficiency and accuracy of threat analysis.
- Designed, implemented, and maintained a custom-built Intrusion Detection System (IDS) to test and enhance monitoring and protection against potential security threats, ensuring a deeper understanding of threat detection mechanisms.
- Spearheaded the automation of manual processes, streamlining operations and reducing response time for security incidents

EDUCATION

Aug 2023 — May 2027

Bachelor of Science (Information Systems), SMU School of Computing and Information Systems

Singapore

- Specializing in Product Development
- Second Major in Computing Studies, Artifical Intelligence Track
- Dean's List AY23/24

Apr 2018 — Apr 2021

Diploma in Network Systems & Security, Ngee Ann Polytechnic

Singapore

- Specialized in Data Security & Forensics
- CSIT Diploma Scholarship Holder
- Represented in WorldSkills Singapore IT Network Systems Administration

PROJECTS

Timperio SMU-X IS442 OOP (Customer Relationship Management System) – A+ Grade

Singapore

- A comprehensive Customer Relationship Management (CRM) system designed specifically for **Timperio**, an olive oil company.
- Streamlines **client management**, **sales tracking**, and **operational workflows**.
- Backend powered by **Maven Spring Boot**, providing robust and secure APIs.
- Frontend built with **Next.js** and styled using **Tailwind CSS**.

SMUMods

Singapore

- A module planning tool for **SMU students**, designed to streamline academic progression by organizing and visualizing courses across terms.
- Features include an **intuitive drag-and-drop interface**, **real-time credit tracking**, and **smart module recommendations** tailored to academic plans and interests.

Assemble Concept Website

Singapore

- A **modern, responsive portfolio website** for Assemble Concept, showcasing innovative interior design projects and expertise in crafting exceptional spaces.
- Integrates **Contentful CMS** to enable effortless portfolio updates and blog publishing, ensuring the platform remains dynamic and engaging.
- Focuses on delivering a seamless user experience while highlighting the company's creative vision and industry leadership.

SKILLS

MongoDB	PHP
Linux	Java
React	JavaScript
Node.js	CSS
SQL	HTML
MySQL	C
Git	C#
Python	Typescript