YAO LONG TAN

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ABOUT ME

Enthusiastic, Diligent, Motivated. Student pursuing Computer Science at Singapore Management University aspiring to be Software Engineer. Seeking internship opportunities in development and cloud computing to make a positive impact.

EXPERIENCE

Student Assistant (Special Projects), SMU Academy   Sep 2023 - Dec 2023

- Engineered Python code enhancements to streamline the team's workflow efficiency.
- Created a fundamental Python programming curriculum for team introduction, focusing on clarity and understanding.

Full-stack Software Engineer Intern, Azendian Solution   May 2023 - Aug 2023

- Developed scalable REST APIs for an application using Express.js and integrated them with Azure and PostgreSQL.
- Performed DevOps tasks on Linux environments to ensure seamless deployment and monitoring on local servers.
- Utilized Git and JIRA for effective communication and justify design decisions to colleagues and superiors.
- Designed a robust backend from scratch, ensuring seamless integration with existing services.
- Documented backend architecture, code design, and design decisions in a comprehensive Developer's Guide using UML.
- Optimized codebase to enhance performance and memory management in line with project requirements.

Administrator, Top Taekwondo Academy   May 2021 - May 2022

- Expertly manage adhoc administrative tasks to ensure seamless daily operations using Excel and Google Sheets.
- Spearheaded the conceptualization, design and production of impactful marketing collateral using Figma and Canva.

PROJECTS

Admin Portal A highly available and scalable solution for admin staff to handle users and points accounts. Developed microservices in Go, Python, and NextJS. Utilised AWS Serverless architecture to enable robust and extensible system. [(Demo)](#) [(Repository)](#)

Sysadmin Platform, Cob Dedicated platform for system administration challenges, inspired by LeetCode. Developed microservices in Go and Python that are integral part of the system. Utilised RabbitMQ, Kubernetes, Helm, and Tilt. [(Slides)](#)

Carpooling App, Bussin A carpooling app service that leverages on private car efficiency and seamlessly integrated public transport options that tries to mitigate traffic congestion. Developed backend RESTful API microservice using Spring. Awarded Credit Suisse Outstanding Award.

Android Game, Dartero Spearheaded the development of an Android game using Java, consisting of user-friendly GUI, advanced 2D graphics. Employed multithreading and concurrency for an immersive gameplay experience. [(Repository)](#)

SKILLS

Languages: Java, Python, JavaScript, Go, Kotlin
Frameworks: ExpressJS, Gin, Spring, React, Vue
Database: MySQL, PostgreSQL, MongoDB
Technologies: Docker, AWS, Git/GitHub/GitLab, Jira, Figma, Canva, Premiere Pro, Photoshop

EDUCATION

Bachelor of Science, Computer Science, Singapore Management University   Expected 2025
Relevant Coursework: Data Structures and Algorithm, Object Oriented Programming, Software Development, Database, Operating System, Cloud Engineering, DevOps

Diploma in Engineering, Computer Engineering, Singapore Polytechnic   2018 - 2012

ACTIVITIES

Honorary General Secretary, SMU Whitehat Society Provided comprehensive administrative support to the club, encompassing tasks such as crafting email blast messages, compiling records for official documentation, and generated meeting minutes, contributing to club's seamless operations.

Quarter Master/ExCo, SP International Students' Club Meticulously oversee the management of club properties and maintain a consistently tidy club room environment. Chairperson for the International Students' Freshmen Orientation Program, leading the strategic planning and meticulous execution of the program's activities. Executed over 12 events successfully.