

JEREMIAH TOH RABINO

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Motivated Computer Science undergraduate in my penultimate year at SMU, specializing in Artificial Intelligence and Cybersecurity. Proficient in full-stack development as well, with hands-on experience in frontend frameworks like React and Next.js, as well as backend technologies including Spring Boot and Flask.

EDUCATION

Bachelor of Science (Computer Science)

Aug 2022 - Jun 2026

Singapore Management University

GPA: 3.3/4.0

Honorary Finance Secretary of SMU Softball

Managed finances within SMU Softball club. Primarily in charge of preparation of yearly budget for the club and handling of purchase claims and audits.

PROJECTS

IT Solution Lifecycle Management

- Developed a job search platform application using Python Flask and Spring Boot in a microservices architecture.
- Deployed our services on AWS. A CI/CD pipeline was established leveraging GitLab's CI/CD pipelines feature. The pipeline automates static analyses, vulnerability scanning, testing and deployment stages, enabling rapid development.
- Employed serverless architecture leveraging AWS Lambda to allow event-driven notifications to be sent to users automatically.
- Introduced feature flags utilising LaunchDarkly SDK to decouple deployment from releases to enable better DevOps practices.

IT Solution Architecture

- Architected CRM system for UBS as part of Singapore Management University's SMU-X program. A heavy emphasis was placed on software qualities such as security, maintainability, scalability, availability and performance.
- Developed the backend servers using Python Flask in a microservices architecture and deployed the APIs and database on AWS. Incorporated services like Load Balancer and implemented multi-AZ configurations and database replication with failovers to ensure availability.
- High throughput and low latency ensured for a minimum of 100 concurrent UBS agents. Sub-100ms latency was achieved with the help of caching using Amazon ElastiCache.

Visual Analytics for Business Intelligence

- Implemented data visualization techniques into a web application using Tableau and D3.js, presenting analyses on the relationship between viral songs on TikTok and Spotify.
- Created a Python Flask API integrated with various machine learning models to predict a song's popularity or longevity based on various song traits from the dataset.

WORK EXPERIENCE

Freelance Web Developer

Jun 2024 - Present

Guidesify

Singapore

Designed and developed websites using WordPress on a freelance basis.

Admissions Officer

Mar 2022 - Aug 2022

Singapore Management University

Singapore

- Managed student admission processes utilising Microsoft Excel and Word for efficient data handling and documentation. Coordinated interviews and tests by communicating with prospective students and parents via emails and phone calls.
- Ensured customer satisfaction and facilitated smooth enrolment through critical client-servicing efforts.
- Conducted detailed analyses of social media performance data for SMU Admissions, emphasising cost-effectiveness of promotional posts across various platforms, and contributed insights to social media department.
- Oversaw registration and provided ushering support during large-scale school events.

SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, HTML/CSS, SQL

Frameworks/Libraries: React, Next.js, Spring Boot, D3.js, Flask

Platforms/Tools: PostgreSQL, MySQL, MongoDB, Docker, AWS, Kubernetes, Terraform, Tableau, Wordpress

AWARDS

Outstanding Project Award for Collaborative Software Development by Singapore Management University SMU-X and UBS

CERTIFICATIONS

AWS Certified Solutions Architect - Associate

LANGUAGES

English (Native proficiency) • Mandarin Chinese (Native proficiency) • Korean (Elementary proficiency)

ORGANIZATIONAL & VOLUNTEER EXPERIENCE

Project HeartCode 2024 Mentor	Sep 2024 - Jan 2025
Singapore Management University	Singapore
Facilitated web development workshops for youth as a mentor, enhancing digital skills and teaching programming basics for web development through Next.js.	