

Samuel Tan Cheng Yong

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EDUCATION

Singapore Management University

Aug 2025 – Aug 2029 (Expected)

Bachelor of Science (Information Systems) with 2nd Major in Artificial Intelligence

GPA: 3.83 / 4.0

- Awards: Dean's List for AY25/26

EXPERIENCE

AI Software Engineer Intern

Aug 2026 – Present

USEKASE.AI

- Integrated and refined product features across the application, translating product requirements into reliable user-facing workflows and supporting end-to-end delivery.
- Investigated and resolved software defects, improving feature reliability and collaborating across product and engineering to identify root causes and ship fixes.
- Built a custom AI-enabled development platform using tools such as OpenClaw and Claude Code to embed AI into the company's software-development lifecycle, supporting faster implementation, debugging, and engineering workflows.

AI Integration Intern

May 2026 – Aug 2026

Ministry of National Development

- Accelerated identification of high-impact AI use cases for MND Corporate Strategy by evaluating GenAI platforms and translating capabilities into operational opportunities and productivity gains.
- Reduced friction in knowledge-intensive workflows by mapping business processes, identifying automation opportunities, and building AI proof-of-concepts to drive stakeholder buy-in.
- Built agentic AI enabled proof of concepts along with prototypes that allowed management to see potential integration opportunities into workflows.

Volunteer Software Engineer

May 2026 – Present

YouthTechSG Open Impact Fellowship – FormSG by Open Government Products

- Contributed to FormSG's open-source GitHub repository, including migrating components from AWS SDK v2 to v3.

PROJECTS & ACHIEVEMENTS

MacroTracker – AI-Powered Macroeconomic News Intelligence Platform

Mar 2026

Awarded 3rd Place out of 170+ Teams at Nanyang Fintech Innovators Hackathon

- Developed an AI-powered platform that enables economists to surface signals from news sources, generating contextual links between events to support faster, more informed market decision-making
- Implemented Vector Embeddings, Natural Language Processing and Semantic Similarities to identify and link similar market occurrences and visualizes these links to the user using D3.js
- Engineered Agentic AI, Retrieval Augmented Generation and AI Chatbots to allow economists to gather factually grounded economic insights using a conversational interface

Project ServSelf

Ongoing

On premises **self-hosted** personal IT Infrastructure

- Built and operated a hybrid self-hosted platform combining Proxmox, Docker, AWS, and Oracle Cloud to provide reliable AI, media, security, and home automation services for end users, with 99.8% uptime.
- Designed, deployed, and maintained containerized applications, including local LLM inference, computer vision, and home automation workloads, to evaluate self-hosted alternatives to commercial services.

CERTIFICATIONS

AWS Certified AI Practitioner | Credential ID b6abef55961e41f589c8997fd3bdf38d

Mar 2026

IBM Python for Data Science, AI & Development | Credential ID JX555AE4K9O3

Mar 2026

LEADERSHIP & CO-CURRICULARS

SMU Incisive Executive Committee | Deputy

Oct 2025 – Oct 2026

Business Intelligence and Analytics Applied AI Lodge | Mentor

Aug 2026 – Nov 2026

SMU Coders Assembly | Mentor

Aug 2026 – Dec 2026

SKILLS

Languages: Python, Javascript, SQL, HTML, React, Typescript

Technologies: AWS, Google Cloud, Azure, NodeJS, Linux Administration, Docker, Networking, Machine Learning, Applied Artificial Intelligence, Backend Software Engineering