ALEXANDER CHUA

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Requires Work-Visa Sponsorship

PROFILE

Final-year Computer Science graduate (October 2026) and AWS-certified with hands-on Python and SQL experience in enterprise data pipelines. Deeply passionate about AI/ML development and cloud systems, continuous learning, and cross-functional teamwork, aiming to contribute immediately to innovative, fast-paced technical teams. Seeking an IT role to contribute to data-driven and intelligent software solutions.

SKILLS

Programming	Python | JavaScript | HTML / CSS | C++ | TypeScript
AI/ML	Retrieval-Augmented Generation (RAG) | PyTorch | ml5.js | LangChain | ChromaDB
Cloud & Tools	AWS (Cloud Practitioner) | Git | Figma | REST APIs | SQL | Node.js | Next.js
Soft Skills	Stakeholder Communication | Leadership | Agile | Presentation
Languages	English | Mandarin | Bahasa Indonesia

EDUCATION

Bachelor of Computer Science (Hons) in Machine Learning and Artificial Intelligence
Singapore Institute of Management - Goldsmiths, University of London
Oct 2023 - Present | Expected Graduation: October 2026

WORK EXPERIENCE

Student Development Program Associate
Singapore Institute of Management | May 2025 - July 2026

- Managed all stakeholder correspondence independently, resolving email backlog and maintaining zero outstanding requests.
- Co-led coordination for the Student Involvement Drive, growing attendance by 10% year-on-year and mobilizing over 300 students.
- Built a Python feedback analysis pipeline (pandas, sklearn, matplotlib) on 340 survey responses, classifying sentiment and surfacing actionable insights for Club Advisor.

PROJECTS

AI Swarm Curriculum Testing
AIE Hackathon | May 2026

- Built the RAG retrieval pipeline for a multi-agent educational simulation platform, implementing document ingestion, semantic chunking, and vector storage using LangChain and ChromaDB.
- Designed the embedding and query system allowing multi-agent simulations to accurately reference course materials.

Cat Kitchen
Gemin-I-can't Even Google Hackathon | April 2026

- Designed and shipped an AI-powered web app in 3 hours using HTML, CSS, and JavaScript, integrating an LLM API (Gemini) to generate personalized cat recipes from user-described feline profiles.
- Sole developer across the full stack; from UI design to API integration to live Vercel deployment, demonstrating end-to-end ownership under time pressure.

NutritionLM
University of London Computer Science Student Council Hackathon | December 2025

- Developed the analytics dashboard in React and TypeScript, implementing BMI-based nutrition tracking, circular progress visualisation, and dynamic bar charts as net-new features.
- Drove the AI model selection decision by advocating for Gemini API, improving output relevance and verification accuracy for the competition submission.

LEADERSHIP AND COMMUNITY INVOLVEMENT

Human Resource Director - Executive Committee (EXCO)
Indonesians in SIM (InSIM) | Apr 2024 - Apr 2025

- Maintained and structured monthly membership records for over 300 active members.
- Planned and executed *Welcoming Party* for freshmen that aligns with UN sustainable development goals.
- Managed recruitment processes and maintained communication within the community through social media.

Data and IT Subcommittee
SENTRE (Education Organization) under Indonesian Embassy in Singapore | Oct 2025 - Sep 2026

- Built web applications for more visibility using Next.js.
- Translated raw survey data into actionable recruitment recommendations, improving operational efficiency directly and supporting organization's mission to guide Indonesian students on university pathways in Singapore.

Student Ambassador
Singapore Institute of Management | Jan 2025 - Sep 2026

- Served as a SIM GE representative at campus open houses, educational fairs, and campus tours, engaging with prospective students from around the world by providing guidance and addressing inquiries.

CERTIFICATIONS AND AWARDS

Certifications	AWS Certified Cloud Practitioner | IBM Generative AI Engineering | IBM Data Science
Awards	Impact Award (2025) | Outstanding Production Award (2025) | University of London Computer Science Student Council Hackathon Champion (2025) | Barefoot Teacher Recognition by *Tan Sri Bernard Giluk Dompok* (2025)