

Mohamed Ameer

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Experience

SIM Information Technology Club | Singapore

Subcommittee Member – General Department | 10/2025 - Present

- Served as a Facilitator for the SIMITC GitHub Workshop Series, supporting a group of up to 5 participants in learning the basics of Git and GitHub through guided, hands-on sessions
- Developing the backend for an internal app that helps SIM students find available study spots, connect with study buddies, and check real-time ETAs around campus

Singapore Armed Forces | Singapore

Security Trooper | 05/2023 - 05/2025

- Managed access control for 100+ personnel and vehicles daily, verifying credentials and maintaining accurate logs to prevent unauthorized entry.
- Assisted in training 10+ new recruits on standard operating procedures (SOPs), improving their readiness and confidence in performing guard duties.
- Contributed to a reduction in minor security incidents by identifying areas for improvement and suggesting practical solutions during team briefings.

FirstCom Solutions Pte Ltd | Singapore

Project Manager Intern | 08/2022 - 01/2023

- Successfully contributed to the delivery of 2+ e-commerce projects, ensuring on-time completion and exceeding client expectations by consistently meeting or beating deadlines.
- Optimized resource allocation by identifying bottlenecks and reallocating tasks, reducing project delivery timelines by 20% while maintaining high-quality standards.
- Managed client communication and stakeholder expectations, ensuring alignment between project goals and business objectives.
- Gained hands-on experience in project management tools (e.g., Trello, Jira) to track progress, assign tasks, and maximize team productivity.

FirstCom Solutions Pte Ltd | Singapore

Web Designer Intern | 07/2022 - 08/2022

- Designed and developed responsive websites using HTML, CSS, and Wix, delivering client-ready solutions
- Collaborated with design team to implement UI/UX improvements, enhancing user engagement across multiple sites

Project

SureBO – AI Fact-Checker (HackoMania 2026) | Next.js, React, LangChain, GPT-4o, ClickHouse *GitHub*

- Built an AI-powered multilingual misinformation detector for Singapore's four official languages, enabling real-time fact-checking of text, URLs, and WhatsApp voice notes
- Engineered a RAG pipeline pulling from 20+ government and news sources, backed by ClickHouse and Supabase with Langfuse for observability
- Integrated OpenAI Whisper for speech recognition and Helsinki-NLP for multilingual translation, delivering verdicts with trusted source citations

MSIG Travel Assistant (SingHacks 2025) | Python, LangChain, Groq Llama 3, FastAPI, Streamlit *GitHub*

- Architected a generative AI pipeline using LangChain and Groq (Llama 3) to manage multi-turn dialogues and detect user intent for travel insurance queries
- Developed FastAPI backend handling policy comparisons, eligibility checks, and dynamic quote generation with PyMuPDF document processing

Skills

Languages: Python, JavaScript, TypeScript, Java, SQL, HTML/CSS

Frontend: React, Next.js, Streamlit, Tailwind CSS, Wix

Backend & Data: FastAPI, LangChain, PostgreSQL, Supabase, ClickHouse, REST APIs

AI/ML: Large Language Models, Prompt Engineering, RAG, NLP, Multilingual NLP, Speech Recognition, OpenAI Whisper

Cloud & DevOps: Microsoft Azure, Cloud Computing, Git, GitHub, Langfuse, Cisco Networking

Education

University of Wollongong Expected Graduation: 2027

Bachelor of Computer Science (Artificial Intelligence, Big Data and Cyber Security)

Temasek Polytechnic Graduated: 2023

Diploma in Financial Business Informatics

Certifications

Generative AI: Prompt Engineering Basics – IBM (Mar 2026) | **Cloud Computing** – Huawei ICT Academy (Nov 2025) |

JavaScript Fundamentals – Codecademy (Jan 2026)