

Nguyen Bui Hoang Tan (Mike)

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Summary

AI engineer with hands-on experience designing, prototyping, and delivering **LLM applications, generative AI automations, and AI proof-of-concepts** for real users. Production experience integrating LLM solutions into business processes using **Python, LangChain, Azure OpenAI, AWS, and n8n**, with cross-functional delivery to non-technical stakeholders. Currently completing Master of AI at UTS; available part-time now and full-time from December 2026.

Education

Master of Artificial Intelligence February 2026 – December 2027 (Expected)
University of Technology Sydney (UTS) | Coursework: Advanced NLP, RL, Data Analytics Algorithms, Cloud Computing & SaaS

Bachelor of Engineering (Electronic & Electrical Engineering) August 2021 – June 2025
Nanyang Technological University (NTU) | Dean's List AY2023-24, AY2024-25 | Specialisation: **Data Analysis & Machine Learning**

Technical Skills

Generative AI & LLM: LangChain, RAG, prompt engineering, LLM evaluation, Azure OpenAI, AWS Bedrock, OpenAI API, MCP
Languages & Frameworks: Python, JavaScript, TypeScript, SQL; PyTorch, TensorFlow, scikit-learn, FastAPI, React, Next.js
Intelligent Automation & Data: n8n, agentic workflows, structured output parsing; PostgreSQL, Supabase, vector search
Cloud & DevOps: AWS (SageMaker, EC2, S3, Lambda), Azure, Railway, Docker, GitHub, GitHub Actions

Experience

AI Engineer (Contract) July 2025 – January 2026
Indochina Heritage Travel Group, Singapore

- Built **LLM-powered automations** integrated into core business processes (meeting transcription to structured requirements to client proposals), **reducing prep time 60%**
- Designed **multi-step agentic workflows** on n8n with conditional routing and structured output parsing; iterative **prompt engineering** and **LLM evaluation**
- Shipped **generative AI** sentiment analysis pipeline over client emails; PDF reports adopted as standard account-manager handoff

Part-Time Research Assistant June 2025 – December 2025
National Institute of Education (NIE), Singapore

- Delivered full-stack **LLM solution** for teacher reflection analytics (React/Next.js, FastAPI, LangChain, PostgreSQL, Azure OpenAI); progressed from prototype to production use by faculty
- Built **multi-tiered RAG architecture** with intelligent agent routing across 100+ lectures and **unstructured** teaching transcripts; aligned with Singapore Teaching Practice framework
- Partnered with non-technical educators to define quality benchmarks and iterate outputs — consulting-style stakeholder engagement

AI Engineer Intern January 2024 – May 2024
Panasonic R&D Center, Singapore

- Comparative evaluation of **GAN architectures** (WGAN, WCGAN, DCGAN) for synthetic time series generation supporting energy demand forecasting
- Trained on **AWS SageMaker** + EC2 GPU; **80% similarity** to real consumption data; findings guided HVAC predictive modelling

Projects

GrowthOS — Knowledge Management MCP Server August 2025 – December 2025

- Deployed **LLM platform** on Railway with Azure OpenAI embeddings; hybrid vector + keyword search across 500+ items, sub-second queries, MCP multi-user access

SEC Insider Trading Detection | insider.autonomike.com October 2025 – Present

- End-to-end **intelligent automation** pipeline over SEC EDGAR Form 4; multi-factor scoring across structured + unstructured signals; dashboard tracks 66+ active positions

Slay the Semester | Cambridge × Incubed EduTech Hackathon April 2026

- Generative AI** learning platform shipped in a weekend: **LLM evaluator agent** probes conceptual understanding per card; adaptive difficulty across 3 tiers

Achievements & Languages

IdeasJam 2023 2nd Runner Up | **RPA x GenAI Hackathon 2024** (SimplifyNext/NTU) 2nd Runner Up

Languages: Native English (IELTS 8.5), Native Vietnamese, Conversational Mandarin Chinese