

DINH DUY LINH DAN

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2023 - May 2027

Bachelor of Computing in Computer Science (Honours), Database Systems & AI Track - Minor in Chinese Language

Coursework: Big Data Systems for Data Science (A), Introduction to AI & Machine Learning (A), Introduction to Data Science (A), Data Structures and Algorithms, Introduction to Computer Networks, Software Engineering (A+)

TECHNICAL SKILLS

- **Programming Language:** Python · C · HTML · CSS
- **Microsoft Office:** Excel Functions (Familiar)
- **Cloud Technologies:** Amazon Web Service (AWS) · Google Cloud Platform (GCP)
- **Frameworks/Libraries/Tools:** FastAPI · LangChain · LangGraph
- **CI/CD:** Docker · Kubernetes · GitHub Actions

EXPERIENCE

Back-end Engineering Intern, Cyber Sierra (Singapore, on-site)

June 2025 – Dec 2025

- Took full ownership of developing back-office automation by developing the following projects:
- AI-agent with Steampipe MCP: Integrated Steampipe MCP and LangChain to enable SQL queries across multi-cloud databases (AWS, Azure, GCP) using natural language, coordinating with diverse engineering squads to accelerate global troubleshooting.
- Ticket updating Slack bot: Facilitated cross-functional alignment by building a Slack-based bot (LangGraph, Bolt) that synchronized engineering teams' update with *Ticketing System* and *Customer Google Sheets*, directly bridging the communication gap between the Engineering and Customer Success teams.
- Pull request (PR) auto-tagging GitHub App: Built a GitHub App to watch PR's status and update tickets in the *Ticketing System*, accordingly, assisting engineers to automatically keep the tickets up to date and work progress is synchronized.
- Security Report Generator: wrote a Python script to generate PDF security report based on security scanning results, using DocxTemplate for formatting and LibreOffice template and a simple Macro program to update table of contents.
- Architected and managed CI/CD using Docker and Kubernetes, ensuring data reliability for microservices while supporting the rapid iteration cycles of a globally distributed team.

RELEVANT PROJECTS

Autonomous Regulatory Auditor | [GitHub](#) | classifier-agent.dandinh.in | **Developer**

Feb 2026

- Architected a multi-node RAG agent using LangGraph and LangChain to automate compliance auditing for 480,000+ regulatory filings, achieving 80% structural extraction accuracy.
- Engineered a scalable knowledge base by integrating ChromaDB as a vector store to perform RAG-based analysis on PDF-based regulatory documents, enabling high-precision semantic retrieval for agentic workflows.
- Implemented automated benchmarking via LangSmith to evaluate model performance, utilizing a Pareto frontier analysis to optimize the trade-offs between latency, accuracy, and inference cost.

Dennie My Corner | personal.app.dandinh.in | **Full-stack Developer**

May 2026 - Present

- Designed a Digital Twin of me to respond to questions from my network, professionals and other people, assisting to know more about me.
- Implemented local cache to save chat history, protecting user personal identifiable information and reducing the needs for authentication. Chat history can be deleted as the user wishes.
- Applied local LLMs instead of cloud LLMs by tailoring prompts for each model, architecting multiple agent nodes, to efficiently use tokens and managing expenses.

Data Analyzer | [GitHub](#) | data-analyzer.dandinh.in | **Full-stack Developer**

Mar 2025

- Architected an AI-driven backend using GPT-4o and PandasAI to programmatically translate natural language commands into Pandas functions for .csv and .xlsx data processing, assisting plotting graphs and giving data insights.
- Streamlined delivery with CI/CD pipelines via Render, enabling continuous deployment and reducing the development-to-production lifecycle by 30%.
- Authored comprehensive technical documentation and user guides to onboard users onto complex data workflows and explain AI-driven features.

AWARDS & ACHIEVEMENTS

1st Place Winner, PayPal x NUS Product Club Product LaunchPad 2026

Jan 2026 – Feb 2026

- Awarded 1st Place out of 6 competing teams in an annual Product Management program focused on advanced PM frameworks, industry mentorship, and case-solving.
- Identified critical friction points in developer and product team workflows, defining a core problem statement centered on the redundant engineering effort required to rebuild onboarding steps for new products.
- Designed the concept of a scalable, multi-tenant onboarding platform for a multi-national fintech company, capable of supporting diverse user personas across multiple distinct product lines.
- Architected a solution utilizing reusable UI components and built-in features, effectively reducing product time-to-market and streamlining internal shipping times.

LEADERSHIP

Well-being Committee Leader, UTown Residence Resident Council

Aug 2025 - Present

- Spearheaded strategic social media and campus campaigns aligned with the "Kindness and Gratitude" wellness theme, driving mental health and community resources to the UTown Residence student body.
- Directed a 5-person committee to launch a "Sleep" initiative, managing content delivery across Telegram and Instagram; achieved an average of 700 views per Telegram post and influenced 20% of surveyed residents to positively adjust their sleep habits.
- Organized a fully registered, in-person aromatherapy workshop; sourced and negotiated with specialized external vendors and executed targeted marketing strategies to achieve 100% capacity enrollment.
- Orchestrated a large-scale Appreciation Dinner for 100+ staff and student leaders over a 4-month planning period, managing end-to-end logistics, marketing collateral, and vendor relationships under tight budget constraints.
- Demonstrated agile crisis management by resolving internal team miscommunications, rectifying overdue milestones, and successfully executing short-lead-time vendor orders to ensure seamless event delivery.

Public Relations Executive, NUSSU Student Life Cell-Open House Student Village, Student Life Fair

Jan 2025 – Aug 2025

- Managed volunteers' tasks, booth allocations and supports using Microsoft Excel, reducing much of human errors with data.
- Analyzed risks and proposed Participating Bodies Booklet to prevent crisis and risks, ensure a safe and smooth operation on event days for both Open House Student Village and Student Life Fair.
- Led as the primary Point of Contact for Participating Bodies before, during, and after the Open House Student Village event, ensuring seamless communication and strict compliance with regulations.

Peer Connector, Video Production Leader, NUS International Student Coordinating Office (ISCO)

Apr 2024 – Apr 2025

- Guided NUS surrounding trails and fostered the first new long-lasting connections for attendees in the trail groups.
- Filmed and edited an informative video for international students of NUS, published on [NUS OSA Instagram](#), providing niche but valuable information to NUS freshmen.
- Designed and prepared materials for Singlish Introductory workshop for NUS international students at the ISO AY25/26.