

# CEDRUS DANG

DATA ENGINEER | SCIENTIST   📍 PERTH, AUSTRALIA   📞 +61 493 950 075

◦ DETAILS ◦

Perth  
Australia  
[+61 493 950 075](tel:+61493950075)  
[cedrusdang@gmail.com](mailto:cedrusdang@gmail.com)

◦ LINKS ◦

[Linkedin](#)  
[Portfolio](#)  
[GitHub](#)

◦ SKILLS ◦

- Data Science
- Machine Learning
- Artificial Intelligence (AI)
- Natural Language Processing (NLP)
- Deep Learning
- AI Agents & Multi-Agent Systems
- Data Engineering
- Python
- Pandas & NumPy
- scikit-learn
- SQL
- ETL & Data Warehousing
- REST APIs & API Development
- LangChain & LangGraph
- Docker
- Cloud Computing (AWS)
- Statistical Analysis
- Data Analysis
- Neo4j & Graph Databases
- PostgreSQL
- Power BI & Tableau
- IoT & Embedded Systems
- LANGUAGES ◦
- English
- Vietnamese

👤 PROFILE

Data Engineer and Data Science professional with a strong focus on AI-driven machine learning and production-ready data systems. Experienced in designing and deploying end-to-end solutions across NLP, AI agents, data engineering pipelines, data warehousing, and IoT using Python, SQL, cloud platforms, and modern ML frameworks. Background spans both large-scale operations and advanced data systems, enabling a balanced approach to scalability, reliability, and measurable business impact.

📁 EMPLOYMENT HISTORY

AI & Systems Development Intern at Captivate Connect, Australia

Jun 2025 — Sept 2025

Captivate Connect - SaaS and API-driven audio and communication platforms

- Designed and implemented an internal AI-driven Python audio processing pipeline using API-first architecture, replacing a third-party AI vendor solution and significantly reducing operational costs.
- Developed backend services and integration documentation to support scalable SaaS and API deployments in production environments.
- Improved system reliability and maintainability by streamlining deployment processes, AI inference workflows, and internal tooling.

Data Migration Intern at Law Access Limited, Australia

Mar 2025 — May 2025

Law Access Limited - Legal services and public access to justice

- Migrated and restructured over 10 years of legacy data into a new SQL-based system, improving data clarity, usability, and governance.
- Automated data transformation and validation workflows using SQL, shell scripting, and Excel VBA, reducing manual processing effort by approximately 70%.
- Built lightweight internal tools to support operational teams and accelerate data handling processes.

Operations Team Leader at DHL Supply Chain, Vietnam

May 2022 — Aug 2023

- Led a 40+ member operations team across B2B and B2C fulfilment, achieving 95% on-time order fulfilment under strict SLA and KPI requirements.
- Supported e-commerce launch and WMS implementation, contributing to operational efficiency and site-level profitability.

Assistant Operations Manager at T&C Logis Vietnam - Korean-Vietnam Logistic Co., Vietnam

Oct 2019 — Jan 2022

- Coordinated warehouse operations, staff training, and vendor communication for multinational clients, ensuring operational continuity during rapid growth and COVID-19 disruptions.

Business Operations Analyst at Hoa Sen Group, Vietnam

Nov 2018 — Sept 2019

- Supported business analysis, contract tracking, and operational reporting during national retail network restructuring at HQ level.
- Contributed to management decision-making by delivering analytical summaries and operational insights supporting store network optimisation initiatives.

## EDUCATION

- Master of Data Science, The University of Western Australia, Perth  
2024 — 2026
- Bachelor of Economics (Environmental Economics), Nong Lam University, Ho Chi Minh City  
2017

## LICENSES & CERTIFICATIONS

- Meta Front-End Developer Specialization
- Django Web Framework - Meta
- Google 5-Day Gen AI Intensive Badge (Kaggle)
- Study Australia Industry Experience Program Completer

## PUBLICATIONS

- Dang T.T., Dang M.P., Mai D.Q. (2018). The awareness and willingness to pay of consumers for imported fruits with food safety certification. Journal of Agricultural Science and Technology, No.1/2018.
- Dang T.T., Dang M.P., Mai D.Q. (2018). Analysis of Water Use Efficiency in Grape Farming in Ninh Thuan Province. Journal of Agricultural Science and Technology, No.2/2018.

## SELECTED PROJECTS & IMPACT

- [Explainable Natural Language Query Interface \(Multi-Agent System\)](#)  
Built an AI system for natural language SQL querying using multi-agent reasoning, RAG-based schema understanding, and explainable query generation. Implemented as a full-stack application with Python, LangChain, Django REST, Next.js, SQL, and Docker.
- [Image Classification using CNNs and MobileNetV3-Small](#)  
Developed and evaluated deep learning image classification models using CNN architectures and MobileNetV3-Small, focusing on model efficiency, accuracy, and performance benchmarking.
- [Queensland Traffic Accidents Analysis \(2001–2021\)](#)  
Conducted large-scale data analysis and data storytelling on long-term road accident trends, uncovering behavioural and policy-relevant insights using Python and Tableau.
- [Data Warehouse Project - Australian Road Fatalities 2024](#)  
Designed a dimensional data warehouse using Kimball methodology, implemented ETL pipelines, and built OLAP-ready models and Power BI dashboards for multidimensional analysis.
- [Smart Livestock Tracking System \(IoT\)](#)  
Built an end-to-end IoT tracking system integrating GPS, LoRaWAN, embedded devices, and AWS IoT Core, achieving up to 50 days battery life and 99% outdoor GPS accuracy.