Cedrus Dang

Data Scientist

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Professional Summary

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.**

Experience

AI & SYSTEMS DEVELOPMENT INTERN
Jun 2025 – Sep 2025

Captivate Connect

- **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 documentatio**n 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
Mar 2025 – May 2025

Law Access Limited

- **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
May 2022 – Aug 2023

DHL Supply Chain

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

ASSISTANT OPERATIONS MANAGER
Oct 2019 – Jan 2022

T&C Logis Vietnam - Korean-Vietnam Logistic Co.

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

BUSINESS OPERATIONS ANALYST
Nov 2018 – Sep 2019

Hoa Sen Group

- 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 SCIENCE (M.S.) in DATA SCIENCE   March 2024 - Dec 2025

The University of Western Australia

WAM: 75 - GPA: 6/7

BACHELOR OF ECONOMICS in ENVIRONMENTAL ECONOMICS

Nong Lam University

Skills

- **Languages:** Python, R, SQL, JavaScript, Bash

- **Data Science:** Machine Learning, Deep Learning, NLP, computer vision, AI agents, Scikit-learn, TensorFlow, PyTorch

- **Data engineering:** ETL processes, data warehousing, PostgreSQL, MySQL, Neo4j

- **Systems and infrastructure:** REST APIs, Docker, Django, Flask, React, AWS services, GitHub

- **Analytics and visualisation:** Power BI, Tableau

Selected Projects

- **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.

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.

- Mai D.Q., Pham T.P., Le N., Pham T.T.C., Dang T.T., Chau T.L. (2018). Analysis of Water Use Efficiency in Grape Farming in Ninh Thuan Province. Journal of Agricultural Science and Technology, No. 2/2018.