

Dinh Huy Nguyen

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Education

- Erasmus – International MSc, Université Côte d’Azur, France** 2024 – 2025
- Major: [Data Science and Artificial Intelligence](#)
 - Awarded the **Erasmus Mundus scholarship**, selected after a worldwide application round
- Danang University of Science and Technology (DUT), Da Nang, Vietnam** 2018 – 2023
- Major: [Informatics Construction \(in Water Resource Engineering\)](#)
 - Graduation thesis: 9.6 / 10 (ranked 1st in major)

Profile

- **Analytics Engineer** working across both **data engineering** (ETL / ELT pipelines, orchestration, data modeling) and **data analysis** (metrics, dashboards, reporting)
- Also worked as an **AI researcher** at GeoAzur (Université Côte d’Azur / CNRS lab), building an end-to-end machine-learning pipeline on hydro-acoustic sensor data

Professional Experience

Analytics Engineer (Data Engineer & Data Analyst) – Axon Active Sep 2025 – Present

- Build and orchestrate data pipelines on the **Azure** ecosystem (**Azure Data Factory**, Azure Storage) with **Databricks** / **PySpark** for large-scale processing
- Model raw sources into tested, documented, reusable data marts with **dbt** (data-quality tests), following **Kimball** dimensional modeling and **Data Vault 2.0**
- Define metrics with analysts and deliver self-serve datasets and dashboards for reporting
- Stack: Azure Data Factory, Databricks, dbt, Data Vault 2.0, Kimball, SQL; CI/CD on Azure DevOps

Analytics Engineer & E-commerce Operations – The Rike, Illinois, USA (Remote, Part-time) Feb 2023 – Jul 2026

- Built **SQL + Python** data pipelines feeding **Power BI** / **Tableau** dashboards for inventory, sales and operations reporting
- Managed and operated the online sales channels (Shopify, Amazon, eBay, TikTok Shop, Faire) – listings, inventory sync, orders and fulfillment – and consolidated their data into a single source of truth
- Built internal tools with **AppSheet** to automate warehouse and order workflows (~80% of manual steps removed)
- Revenue ~\$385K over 8 months; operating costs cut ~60%

AI Researcher – GeoAzur, Valbonne, France Jan 2025 – Sep 2025

- Sole researcher on "*AI for Detecting and Estimating Rain and Wind using Hydro-Acoustic Data*"
- Designed and implemented the full pipeline from scratch: data analysis, data-engineering workflows, feature computation, model development and evaluation
- Applied outlier detection and interpolation (IQR, mutual information) for data cleaning
- Tools: Python, PyTorch / TensorFlow, signal processing

Co-founder & AI / Full-Stack Engineer – Passgenix Technology Team (Hybrid) Mar 2022 – Sep 2024

- Built an AI-powered platform for automated video editing, translation, content creation and multi-platform publishing (full-stack + system architecture + AI)
- Developed AI mobile apps for agriculture – drought / weather forecasting with TensorFlow + Keras (LSTM,

CNN), React Native, Node.js, MongoDB

DataHouse Asia, Da Nang, Vietnam (On-site)

Jun 2022 – Jul 2024

Data Engineer

May 2023 – Jul 2024

- Built pipelines on **AWS** (Lambda, S3) and **GCP BigQuery** for ingestion, transformation and reporting as part of the Data team; version control and CI on GitLab
- Supported data migration for the DCD (Hawaii Disability Compensation Division) and CPT (Hawaii Department of Education) programs; teams of 30–50 members

Salesforce Developer

Jun 2022 – Jul 2023

- First engineering role: Apex, Aura / LWC, SOQL; shipped features and data migrations across Dev / Test / Prod

Projects through Academic Learning

MSc Data Science and Artificial Intelligence

2024 – 2025

Université Côte d’Azur, France

- Advanced Deep Learning, Reinforcement Learning, Statistical & Bayesian Learning, Federated Learning, Data Privacy, High-Dimensional Statistics
- Computer Vision project: *Matching Anything by Segmenting Anything*
- Statistical analysis of graphs (Networks); Advanced Learning for Functional, Mixed and Text Data

BSc Informatics Construction (Water Resource Engineering)

2018 – 2023

Danang University of Science and Technology (DUT), Vietnam

- Evaluation of ML and DL models for drought forecasting; mobile app using AI to forecast drought (2022)
- Building mobile applications in agriculture using AI and Remote Sensing (2021)
- Using GIS and AI to build mobile applications for natural disaster response (2020)
- Application of AI and Blockchain in automatic architecture design in construction (2023)

Skills

- **Analytics Engineering:** dbt, Kimball dimensional modeling, Data Vault 2.0, star-schema design, data testing & documentation, metrics layer
- **Data Engineering:** ETL / ELT pipeline design, orchestration (Azure Data Factory, Airflow – basic), n8n; Databricks / PySpark, Azure, AWS (Lambda, S3), GCP BigQuery
- **Programming:** Python (pandas, NumPy, scikit-learn), SQL / MySQL, SOQL, JavaScript, Java / Kotlin
- **BI & analysis:** Power BI, Tableau, AWS QuickSight, Google Sheets, Excel, exploratory data analysis, reporting automation
- **AI / Machine Learning (applied):** TensorFlow / Keras, PyTorch; time-series forecasting, automation
- **Version control & CI/CD:** Git – GitHub, GitLab CI, Azure DevOps Pipelines
- **Platforms & Tools:** Salesforce (Apex, Aura / LWC), Google AppSheet, MongoDB; APIs – Shopify, Amazon, eBay, TikTok Shop, Faire, Open Weather
- **Soft skills:** Stakeholder communication, teamwork, problem solving, time management, business development
- **Languages:** Vietnamese (native), English (professional), French (basic)

Professional Certificates

- [Google Data Analytics](#)
- [Salesforce Certified Platform Developer I](#)
- [Funix Machine Learning](#)
- [Data Analyst](#)