

Le Hong Ngoc

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Experience

Data analyst (consulting) | TC Data

Sep 2025 - Current

Data Lakehouse & Phu My Connect Webapp Project | PetroVietnam PVFCCo - Phu My

- Gathered finance, business, and project management requirements; designed wireframes and developed interactive Power BI dashboards for management reporting.

Data Warehouse Project | Southern Gas Trading JSC

- Queried and transformed data from PostgreSQL, built semantic models and DAX measures in Power BI.

Product intelligence research associate | SPINS LLC

Mar 2025 - Aug 2025

Developed automation scripts using Python, SQL, Windows Batch to streamline product research workflows.

- Helped maintain and update a 3M+ SKU product database for the U.S. Consumer Packaged Goods industry by conducting in-depth product research using market information, UPC-level POS and panel data across 180+ brand attributes.

IT business analyst intern | Doccen

Dec 2024 - Mar 2024

- Crafted technical documentation including user stories, user flows, feature logic, and UI wireframes in Figma, informed by basic grasp of full-stack development (frontend, backend, database and APIs).
- Led Agile workflows with Jira, prioritising backlog and facilitating cross-functional communication.
- Conducted User Acceptance Testing i.e. inspecting UI elements, verifying API responses & database interactions in PostgreSQL.
- Redesigned the company sitemap and implemented slug generation rules to optimise SEO.

Machine learning research student | ICLS Tech

Apr 2024 - Sep 2024

- Contributed to an academic research paper by cleaning, preprocessing, and engineering features (Hidden Markov Chains & mutual information) on 1M+ FOREX data points; applied a triple-barrier labelling method to improve predictive accuracy in volatile markets.
- Utilised automated machine learning to assess backtest overfitting risk (Probability of Backtest Overfit & Deflated Sharpe ratio) different cross validation methods in financial time series.

Education

Western Sydney University Vietnam | BBus, Applied Finance (GPA: 6.435 / 7.000)

Aug 2022 - Aug 2024

- 5-time Highest tier Vice Chancellor's Academic Scholarship recipient (215,000,000 VND)
- Recipient of Graduated with Distinction Award & Yearly Dean's Merit List Awards
- Early graduation by 1.5 years
- Top 4 Local Finalist (P&G Peakathon Business Competition 2024)
- 1st place winner (British Council IELTS Talent Contest, Southern Vietnam Division)
- Assisted English professor with cleaning and analysing data for a study on peer tutoring and agency in tertiary education in VN

Certifications

- PL-300 Microsoft Certified: Power BI Data Analyst Associate
- Academic IELTS 8.0

Skills

- Data analysis: Python & Machine Learning, SQL, Spark, PowerBI, R, Stata, SPSS, Minitab
- Software development: FRS/SRS documentation, Agile, HTML, CSS, APIs
- Visual design: Photoshop, Illustrator, Figma
- Business: Product research, market research, financial modelling & valuation

Leadership & extracurricular activities

- UEL English Club Project leader: Led a 40+ member team and organised two campus-wide events with 250+ participants.
- UNESCO Youth Hackathon 2025 UI/UX designer: Designed the SafeHer web app prototype for mobile and desktop.
- HCMC Dept. of Industry & Trade ASEAN Bridge++ representative: Represented Australia at a regional business forum, engaging with 500+ diplomats, consul generals and business leaders on sustainable trade in ASEAN.
- Project X Tech fellowship mentee: Participated in a selective mentorship focused on leadership and innovation.
- WSU LaunchPad AI Venture Makers participant: Developed an AI-based business solution addressing UN SDGs.
- UEL Music Club pianist: Produced and performed piano tracks for two official university music videos.
- Freelance graphic designer: Created 200+ marketing materials for international clients and campus initiatives.

Projects

ETL data pipeline and FastAPI for World Bank data ingestion

Data engineering, API

- Built an ETL and API system using Python, SQLAlchemy ORM, PostgreSQL, pandas, and requests to ingest, transform, and load World Bank indicator data into relational models with time-series structures, upsert logic, and dimension/fact table handling, and served it via FastAPI with pydantic-based CRUD endpoints, schema validation, and model definitions.

Comprehensive strategic, competitive, financial analysis of Hoang Anh Gia Lai company

Research, finance

- Conducted strategic analysis and valuation of Hoang Anh Gia Lai's stock (2018–2022) using SWOT, Porter's 5 Forces, DCF, APV, CCA, regression forecasting, scenario/sensitivity analysis, Monte Carlo simulation, Altman Z-score, and VaR to assess growth drivers, risks, competitive position & investment viability.