JEN (HA) NGUYEN
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ACADEMIC AWARD

- **3rd Prize – 7th National Big Data Health Science Conference 2026:** Data Hackathon
- **1st Prize – US IT National Collegiate Conference 2025:** Database Design & Machine Learning Contest
- Visionary Award 2025– Association for Business Information Technology Students 2025

EDUCATION

Missouri State University, School of Engineering and Applied Science   Missouri, USA
Master of Science of Data Science || Master of Business Administration (Minor: Finance and Data Analysis), GPA: 4.0/4.0
Valedictorian Scholarship | Beta Sigma Honor Society

Hoa Sen University   Vietnam
Bachelor Degree of Economics, GPA: 3.6/4.0

Artificial Intelligence (AI) Vietnam Institution   Vietnam
AI Engineer and Data Science (DS) associate degree

EXPERIENCE

Machine Learning (ML) Engineer Intern | Coulomb Technology   Remote, USA | Jan 2026 – Present

- Led end-to-end a tree-based regression pipeline using Python to be identified how material characteristics affect battery performance, increasing energy capacity from 100–120 to 135 mAh/g, saving over $1M in battery manufacturing costs.

Data Analyst Intern | CoxHealth   Missouri, USA | Jun 2025 – Aug 2025

- Led end-to-end ETL, modeling, and Power BI analytics on 5 years of call-center and execution data using SQL and DAX, enabling data-driven workforce planning and saving $100K annually.
- Processed 11M+ unstructured physician messages using SQL, PySpark, PyTorch, and BERT-based Large Language Models (LLM) to extract radiology procedure requests and support operational analytics.
- Performed time-series demand–capacity analysis and built Power BI dashboards to identify patient backlog and revenue leakage, unlocking $1M+ incremental revenue and reducing backlog by 50%.
- Built scalable data platforms and automation (Microsoft Fabric, PySpark, SQL, ServiceNow, Copilot), processing 10TB+ HDFS data, automating 300+ reports, reducing cloud costs by 40%, and improving operational efficiency by 5%.

Graduate Research Assistant | Missouri State University   Missouri, USA | Aug 2024 – Present

- Led economic research on Gen Z and Millennial investment behavior (200+ respondents) using logistic regression (scikit-learn) and statistical modeling in R, supporting financial literacy and policy insights.
- Supported faculty-led economics research by designing regression and clustering models in R to analyze COVID-19 impacts on customer behavior across the Midwest U.S.
- Analyzed and designed reports and dashboard using Power BI to visualize 2000+ student performance in 05 years, class effectiveness and professors 'feedback for Department Head making informed college decisions.
- Developed and deployed a scalable web application on AWS using EC2, S3, and RDS, resulting in a 30% increase in competition website traffic and improve student's experience.
- Taught Power BI, Statistics, Anlysis of Vairance and Information System coursework and mentored 30+ students in Python and R, coaching ML optimization that led to multiple hackathon awards.

AI Researcher | Abseintein Medical School   Remote, USA | Nov 2024 – Present

- Designed and validated deep learning medical imaging pipelines (ResNet34) for chest X-ray abnormality detection, leveraging advanced preprocessing to significantly improve diagnostic performance.
- Built end-to-end 2D/3D medical imaging experiments, integrating cross-validation, radiomics, and multi-model SOTA ML/DL models benchmarking across 16+ architectures.
- Partnered with radiologists to annotate 1,000+ MRI scans and led feature selection and model evaluation (10+ methods), achieving AUC = 0.903 and reducing diagnostic decision time by 50%.

Senior People Analyst | Home Credit B.C   Ho Chi Minh, Vietnam | Mar 2022 – Jul 2023

- Built and owned Workday HR analytics and data warehouses, automating 100+ reports, reducing reporting turnaround time by 50%, and enabling scalable HR and Talent Acquisition insights.
- Analyzed Workday HR data using SQL across hiring, exit surveys, headcount planning, and performance; integrated top-university talent-pool data to identify skill gaps and accelerate technical hiring.
- Developed gradient-boosting tenure prediction models using engagement and performance data, improving workforce planning accuracy by 80% and generating $100M in staffing cost savings.
- Led data-driven recruitment, VoE, 360° leadership feedback, and DEI analytics, increasing applicant volume by 20%, reducing attrition costs by 12%, achieving 100% participation, improving engagement by 20%,
- Award: The Best DEI Projects (Nordic Chamber of Commerce) and Global DNA STARs Award (2022).

PUBLICATIONS

- **Radiology Society of North America Conference (Poster):** OASIS-Net for Obstetric Adversarial Semi-Supervised Segmentation of Cervical and Fetal Head Ultrasound Imaging.
- **Springer Nature Journal (Under review):** MediRad-MRI: AI-Driven Radiomics Classification of Anterior Mediastinal Tumors on MRI (Author list: Minh H. N. Le; **Ha L. T. Nguyen**; Thanh-Huy Nguyen; Hien Q. Nguyen; Tuan Vinh; Nguyen Linh Thoai; Tan Duc Vo; Nhi H. H. Le; Thanh Vy Tran; Min Xu; Ulas Bagci; Thi Mai Thuy Tran; Nguyen Quoc Khanh Le)
- **Diagnostics Journal (Under review):** Leveraging Large Language Models for Automated Extraction and Phenotyping of Abdominal Aortic Aneurysm from Radiology Reports (Authors: Praneel Mukherjee, Ryan C. Lee, Roham Hadidchi, Sonya Henry, Michael, Coard, Matthew Davis, Yossef Rubinov, **Ha Nguyen-Luong**, Leah Katz, Tim Q Duong)
- **ICME Conference (Under review):** SO-LoRA: Sparse Orthogonal LoRA for Parameter-Efficient Continual Learning

CERTIFICATE

- Lean Six Sigma Practitioner - Dr. Mikel J Harry Six Sigma Management Institute Asia 2021
- SQL Associate (Exam SQ501P) – DataCamp (https://www.datacamp.com/certificate/SQA0010873285945)
- Mathematics for Machine Learning and Data Science – DeepLearning.AI (https://coursera.org/share/03b2e09d9ff0b00fce1ca8572675a206)
- Snowflake - SnowPro Core Certification *(In progress)*