

Phuong Nam Nguyen

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Profile

AI/ML Engineer with experience building, deploying, and optimizing machine learning systems in production across healthcare, sustainability, and industrial domains. **No visa sponsorship required.**

Education

- MSc in Data Science & Artificial Intelligence** 2023 - 2025
Eindhoven University of Technology Eindhoven, Netherlands
- Focus on Deep Learning, Computer Vision, and Generative AI
 - Thesis:** Distributed machine learning for medical image analysis under real-world compute and deployment constraints.
- BSc in Artificial Intelligence (Cum Laude)** 2020 - 2023
University of Groningen Groningen, Netherlands
- Activities:** Teaching assistant
 - Thesis:** End-to-end medical image classification using Deep Learning.

Experience

- AI Engineer Intern** May 2025 – Dec 2025
Delft Imaging 's-Hertogenbosch, Netherlands
- Designed and implemented a distributed machine learning pipeline for medical image analysis, reducing communication and computation requirements by up to 40%.
 - Applied model optimization to achieve 3x faster inference on CPU-based edge devices.
 - Tools & Technologies:** PyTorch, W&B, ONNX, Prometheus, Docker, Linux, Python
- Junior Data Engineer (Part-time)** Dec 2023 – Dec 2025
Greencaravan Remote
- Automated cloud infrastructure deployment using Infrastructure as Code, reducing manual setup effort.
 - Built serverless APIs to integrate EV charging data, enabling downstream analytics and charging optimization.
 - Developed a KPI analytics pipeline to assess user base health by extracting behavioral metrics and enabling real-time monitoring.
 - Tools & Technologies:** AWS (CDK, Lambda, API Gateway, EventBridge), GitHub Actions, MySQL, InfluxDB, Grafana
- Software Engineering Intern** Feb 2023 – Jun 2023
ASML Eindhoven, Netherlands
- Built a full-stack monitoring application to ingest, store and visualize KPIs in real-time, reducing manual monitoring time by up to 70%.
 - Tools & Technologies:** FastAPI, InfluxDB, Grafana, Docker, Linux, Python

Projects

- Multilevel Audio Reconstruction with Implicit Neural Representations** | [Github](#)
- Developed a multiscale encoder-decoder architecture using Implicit Neural Representations (INRs) for high-fidelity audio signal reconstruction.
 - Conducted systematic benchmarking on public datasets, achieving competitive objective metrics (MSE: 0.012, MAE: 0.068).
 - Tools & Technologies:** PyTorch, slurm, Signal Processing
- QuickSilver Graph Database Optimization** | [Github](#)
- Designed and implemented performance-critical algorithms for large-scale data processing, reducing query execution latency.
 - Improved query efficiency through optimized estimation, caching, and algorithmic design, lowering compute and memory overhead by up to 50%.
 - Tools & Technologies:** C++, Optimization, Algorithms, Graph Processing
- RAG Travel Recommendation Map (Hackathon)**
- Built an LLM-powered recommendation backend using Retrieval-Augmented Generation (RAG) for city-based travel suggestions.
 - Implemented semantic search with FAISS and LLM-based ranking over Google Maps place metadata.
 - Tools & Technologies:** Python, FastAPI, LangChain, FAISS, LLMs

Skills

GenAI & LLMs: LLMs, Hugging Face, LangChain, Transformers, Retrieval-Augmented Generation (RAG)
Machine Learning: PyTorch, TensorFlow, scikit-learn, NumPy, pandas, Computer Vision
Programming Languages: Python, R, SQL, C/C++
MLOps & Deployment: AWS, Docker, FastAPI, CI/CD, Monitoring, Linux, Git, W&B
Data & Observability: InfluxDB, Prometheus, Grafana
Concepts: Distributed Systems, Optimization, Data-Intensive Systems
Soft Skills: Communication, Problem-solving, Teamwork, Scientific Research
Languages: English (C2), German (C2), Czech (Native), Vietnamese (Native)