

Duy Nguyen

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EDUCATION

Master of Science in Data Science

Sep 2025 – Expected Jun 2027

Seattle University

Seattle, WA

- **Coursework:** Deep Learning, Statistical Inference & Experimental Design, Programming for Data Science — **GPA: 4.0**

Professional Certificate in ML/AI

Jul 2024

UC Berkeley College of Engineering

Online

- Built deep learning models (LSTM, MLP) and ensemble methods achieving 80% accuracy; projected \$30.4M annual savings; methodology selected as program exemplar

BA Economics, Data Analysis

Dec 2022

Simon Fraser University

Burnaby, BC

TECHNICAL SKILLS

ML/DL: PyTorch, TensorFlow, scikit-learn, FastAI, Transfer Learning, CNNs, Ensemble Methods, Hyperparameter Tuning

Data Science: Python, R, pandas, NumPy, Feature Engineering, Cross-Validation, A/B Testing

Tools: Git/GitHub, Neo4j, LangChain, LlamaIndex, Jupyter, Matplotlib, Seaborn, Plotly

EXPERIENCE

AI Engineer

Mar 2024 – Oct 2024

Simon Fraser University Blueprint

- Developed AI chatbot serving 660K+ interactions with Neo4j graph database and multi-language NLP
- Achieved 90% accuracy through prompt engineering and automated quality validation; Top 4 SFU CS Diversity Award

AI Research Engineer

Jan 2024 – May 2024

Simon Fraser University Faisal Lab

- Built RAG pipeline using Python and LlamaIndex, accelerating physician report generation by 50%

PROJECTS

AI-Powered Portfolio with Conversational Assistant | Python, Flask, LangChain, Claude API

Present

- Engineered full-stack app integrating Anthropic LLM with Flask backend, RESTful architecture, and conversation memory
- Built dual-chatbot system with self-healing error correction via tertiary AI fallback for robust UX

Deep Learning Image Classification | PyTorch, ResNet34, Transfer Learning

Dec 2025

- Achieved 94% accuracy classifying 2,527 images using transfer learning; 100% minority class recall
- Designed controlled experiments testing 4 augmentation strategies through systematic A/B testing

Aircraft Fuel Efficiency Statistical Analysis | Python, pandas, NumPy

Dec 2025

- Analyzed 1.88M flight measurements; built regression models achieving 95.9% accuracy via ANOVA

Medical Image Classification | PyTorch, ResNet50

Nov 2023

- Fine-tuned CNN for medical imaging; ranked 12th on Kaggle leaderboard

LEADERSHIP & ACTIVITIES

Co-Founder & Event Coordinator

Sep 2025 – Present

Seattle University International Student Association

- Coordinate events fostering community among 200+ international students; manage cross-team collaborations