

# Huy Nguyen

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## EDUCATION

**Rice University, Houston, Texas**

Master's in Computer Science

Graduation: May 2027

Specialization: Machine Learning & Data Science

**University of Houston, Houston, Texas**

Bachelor of Science in Computer Science

Cumulative GPA: 3.74

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## SKILLS

- **Programming & Software Engineering:** Python, C++, Java, SQL; data structures & algorithms.
  - **AI, Machine Learning & NLP:** LLMs (RAG, Fine-tuning), Semantic Search, Transformers, PyTorch, TensorFlow, Vector Databases (FAISS), scikit-learn, Pandas, NumPy, Re-ranking, LLM Reasoning.
  - **Tools & Systems:** Docker, Kubernetes, AWS (SageMaker), GCP (Vertex AI), Azure, FastAPI, Git, BentoML.
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## AWARDS & ACHIEVEMENTS

- **First Place**, 2026 Rice Datathon (Expert Track by **OpenStax**)
  - **Top 200 of Meta Hacker Cup 2025 Round 3**
  - **Codeforce Candidate Master** (peak rating 1968)
  - **Leetcode Guardian** (2332 contest peak rating, top 0.46% globally)
  - **Kaggle Master** (top 1% globally, 12M+ users)
  - **9+ hackathon wins**
  - **Fifth Place**, 2024 Google Cloud Next hackathon
  - **Winner of Google DeepMind - Vibe Code with Gemini 3 Pro in AI Studio on Kaggle**
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## PROJECT

### Rice Datathon 2026 - Mapping Standards in the Textbook by OpenStax

| Python | NLP | Text Classification | Transformer

- Developed a Semantic Alignment model using a dual-stream pipeline and Re-ranking algorithms to automate curriculum mapping for OpenStax textbooks.
- Leveraged Gemini API for automated data enrichment and FAISS for high-speed vector search, achieving first place at Rice Datathon 2026.

### Google Cloud Platform Hackathon - BigQuery AI for Returns & Refunds Intelligence

| Python | Google Cloud Platform | Generative AI | SQL | BigFrames Multimodal AI |

- Built a data-driven AI solution for e-commerce returns & refunds to cut logistics costs, detect fraudulent claims, and boost customer trust by predicting serial returners and enabling targeted incentives.
- Leveraged BigQuery GenAI by Google Cloud Platform with vector search, BigFrames Multimodal and BigQueryAI Forecast on **1M+ unstructured data** to surface patterns, achieving **90% F1 on hidden test set**.

### Kaggle Research - AI Math Olympiad 2025

| Python | Synthetic data generation | LLM Fine-Tuning | Chain-of-Thought (CoT) | Deep Learning |

- Built AI models to solve Olympiad-level math problems in LaTeX, fine-tuning large language models on **800K+ examples** to improve step-by-step reasoning.
  - Applied chain-of-thought prompting and self-consistency with feedback, then fine-tuned DeepSeekMath-Base (7B), **improve accuracy score** from baseline model on LaTeX Olympiad problems (X→Y) by **85%**.
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## CERTIFICATES

- Google Data Analytics Professional Certificate, Machine Learning on Google Cloud Specialization, Google Cloud Platform Associate Cloud Engineer.