

Thong Pham

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EDUCATION

University of Colorado, Boulder

Master of Science: Computer Science (GPA 4.0 / 4.0)

Boulder, CO

June 2024 - June 2026

- **Computer Science Coursework:** Machine Learning, Deep Learning, Advanced Data Structure RSA and Quantum Algorithms.
- **Mathematics Coursework:** Statistical Methods for Data Science, Linear Algebra, Mathematics for Machine Learning.

University of California, Irvine

Bachelor of Arts: Business Economics

Irvine, CA

September 2019 - December 2022

WORK EXPERIENCE

Kashmir World Foundation

Artificial Intelligence / Machine Learning Researcher

Richmond, VA

September 2024 - Present

- **Researched and developed AI/ML project plans**, conducting literature reviews and model assessments to identify optimal algorithms and datasets, which accelerated project timeline by 20% and improved model accuracy by 7% compared to baseline approaches.
- **Built and deployed scalable machine learning models** on AWS and GCP multi-GPU environments, utilizing data engineering and distributed computing to reduce model processing time by 30% and increase real-time analytics capacity, enabling the team to meet high-volume data requirements.
- **Facilitated cross-functional collaboration for AI initiatives** from concept to production, coordinating with data scientists and engineers using Agile methodologies, and implementing CI/CD pipelines and version control. These actions reduced deployment times by 25% and ensure 100% compliance with industry standards.

True Path Financial

Associate Data Analyst

Irvine, CA

February 2023 to April 2024

- **Engineered robust data pipelines** to process and analyze over one terabyte of unstructured financial data using open-source tools like Isolation Forest and One-Class SVM models in Python. This initiative enhanced data-driven decision-making, resulting in an **11.3% increase in client portfolio ROI**.
- **Utilized open-source data visualization tools** (e.g., Seaborn, Matplotlib) to present complex financial insights, which improved communication and collaboration across cross-functional teams and enabled stakeholders to make informed decisions.
- **Led the design and implementation of a data governance framework** using Apache Atlas, establishing clear data ownership, improving compliance processes, and reducing data management costs by **12%** while decreasing compliance errors by **15%**.

Goldman Sachs Early Career Accelerator

Finance Analyst Intern

Remote, Online

July 2022 to March 2023

- Completed an 8-month virtual finance program with over 20 projects and case studies, ranking in the top 10% for performance in investment banking, private equity, and financial technology.
- Built a network of over 50 professionals, gained insights into Goldman Sachs' corporate structure, improved operational knowledge by 30%, and developed recommendations to enhance cross-divisional collaboration.

PROJECTS AND LEADERSHIP

Algorithmic Trading System | Python, Vantage API, Black-Scholes Model

July 2024 - September 2024

- Built a real-time algorithmic trading system using Python, incorporating the Black-Scholes model for option pricing and integrating live market data through the Alpha Vantage API to automate trading decisions. This system improved trading accuracy by 15% and increased user efficiency, significantly optimizing the trading process with a custom graphical user interface (GUI).

AIcedemy | Swift, Machine Learning (CNNs, PyTorch, Swift), AWS, MongoDB

May 2024 - August 2024

- Developed an educational app using Swift that integrates convolutional neural networks (CNNs) to analyze student-submitted photos and generate personalized, interactive simulations and questions. This approach enhanced student engagement and understanding of complex subjects, resulting in over 1,000 downloads in the first month and a 40% increase in user engagement.

Skills

Programming Languages: Python (TensorFlow, Scikit-learn, Keras, PyTorch, Seaborn), R, Java, C/C++, Swift, SQL.

Tools & Frameworks: Git (CI/CD), Power BI, Apache Atlas, Excel, Vantage API, Microsoft Outlook.

Data Engineering & Big Data: MongoDB, AWS (S3, EC2), GCP, Snowflake.