

# Thong Pham

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## EDUCATION

### University of Colorado, Boulder

Boulder, CO

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

June 2024 - June 2026

- **Computer Science Coursework:** Machine Learning, Deep Learning, Big Data, Data Mining, Data Structure RSA.
- **Mathematics Coursework:** Statistical Methods for Data Science, Linear Algebra, Mathematics for Machine Learning.

### University of California, Irvine

Irvine, CA

Bachelor of Arts: Business Economics

Graduation Date: December 2022

## WORK EXPERIENCE

### Kashmir World Foundation

Richmond, VA

Artificial Intelligence / Machine Learning Researcher

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 15% 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

Irvine, CA

Associate Data Analyst

February 2023 to April 2024

- Utilized Decision Trees and Random Forests in Python and R to analyze over four years of financial data, optimizing investment strategies by identifying patterns in high-risk assets for clients, which led to a 6.7% increase in ROI.
- Developed and implemented an anomaly detection system using Isolation Forest and One-Class SVM models, processing over one terabyte of financial data to uncover undervalued investments, resulting in an 11.3% increase in client portfolio ROI and a 20% improvement in client satisfaction.
- Led the design and implementation of a data governance framework using Apache Atlas across six departments, establishing clear data ownership, improving compliance processes, and reducing data management costs by 12%, while decreasing compliance errors by 15%.

### Goldman Sachs

Remote, Online

Finance Analyst Intern

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, TensorFlow, PyTorch), AWS

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), R, Java, C/C++, Swift, SQL.

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

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