

NAM TRAN

Winston-Salem, NC (Open to relocation)

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EDUCATION

Wake Forest University, M.S. in Business Analytics | GPA: 3.93 May 2024

SUNY New Paltz, B.S. in Business Analytics and Finance | GPA: 4.0 (Major) | 3.88 (Cumulative) May 2023

Honors: Outstanding Graduate Award, Outstanding Service Award, SOB Academic Award, National Test High Achiever Award

AREAS OF EXPERTISE

Data Analysis | Financial Analysis | Machine Learning | Time Series Forecasting | Statistics | Data Visualization | ML/Generative AI

TECHNICAL SKILLS

Technical Tools: Excel, R, Python, SAS, Tableau, Power BI, SQL, Big Query, Alteryx, HTML, Git, Docker, Linux, Powershell/Bash

Machine Learning Frameworks: Supervised/Unsupervised learning, Cluster analysis, Scikit-learn, Tidymodels, TensorFlow, PyTorch

Big Data Technologies: AWS, Google Cloud, Microsoft Azure, OpenAI, Hugging Face, LangChain, LlamaIndex, Pinecone, Redis

Professional Certifications: Tableau/Advanced SQL for Data Scientists, Machine Learning with AWS, Google Cloud Gen AI Learning Path, Microsoft Azure AI Vision, TensorFlow Developer Specialization, PyTorch and Deep Learning, Bloomberg Market Concepts

PROJECT EXPERIENCE

Visual Question Answering (VQA): [Link](#) March 2024

- Developed a high performance VQA app using the state-of-the-art BLIP model, enabling natural language questioning on images with accurate answers, leveraging containerization (Docker), version control (GitHub), and Streamlit deployment

Advanced Facial Detection System for MSBA Classroom Attendance: [Link](#) December 2023

- Enhanced facial recognition attendance tracking by 35% in recall and 40% in confidence against the school's existing system by integrating Amazon Rekognition API and optimizing image storage on Amazon S3

Multimodal Generative AI: [Link](#) August 2023

- Integrated two top-ranked Hugging Face LLMs into a multimodal AI system for bidirectional image-to-text generation
- Deployed the model with a Gradio UI, streamlining user interaction through effective web development and API integration

Other Projects: [Link](#)

PROFESSIONAL EXPERIENCE

Sales Factory / Graduate Consultant | Greensboro, NC January 2024 – Present

- Achieved a 50% reduction in labor hours, measured by operational budget analysis, by implementing a RAG system to generate tailored news briefs in the company's specific template based on real-time database updates
- Constructed the chatbot by developing a data pipeline and model infrastructure with LlamaIndex and LangChain, ensuring seamless data extraction and integration with LLMs (GPT-4, Claude 3) for fast, accurate, and relevant responses
- Reduced monthly operational costs by 45%+ through the identification and implementation of open-source solutions (Hugging Face Models Integration) within the Azure infrastructure, contributing to overall cost-effectiveness and efficiency

Skills Utilized: Azure, NLP (SpaCy, Llama Parse), LLMOps, Vector Database, SQL (Azure SQL, Cosmos DB), GUI (Streamlit)

SAS / Graduate Consultant | Cary, NC September 2023 – Present

- Led a 5-graduate team to a 66% improvement in default customer identification and a 15% boost in model classification (measured by recall and ROC-AUC) by integrating time-to-event analyses, macroeconomic data, and XGBoost model
- Built an end-to-end ML pipeline by integrating data preprocessing, feature engineering, model training, and evaluation stages
- Deployed the optimized model on AWS SageMaker, guaranteeing low-latency predictions and seamless data integration

Skills Utilized: ML pipeline, Hyperparameter tuning, Model testing, Feature engineering, Visualization, Leadership, Communication

SUNY New Paltz | New Paltz, NY

Financial Research Assistant May 2022 – May 2023

- Improved stock selection for the School Investment Fund, measured by 2% annual outperformance of the S&P 500, by developing pricing models using the Center for Research in Securities Prices (CRSP) API
- Optimized portfolio risk management by conducting value at risk and expected shortfall analysis
- Presented analytical findings at academic forums (UMass Amherst PhD seminar, Economic and Finance Annual Meeting)

Statistics Teaching Assistant

October 2022 – May 2023

- Awarded the Outstanding Service Award by the School of Business for exceptional contributions to student success, including boosting course pass rates by 20% through individualized support and tailored training
- Elevated student confidence in applying statistical concepts by 75% by designing materials that simplified complex topics

Skills Utilized: Visualization (Tableau), Portfolio optimization, Financial Modeling (DCF, LBO), Monte Carlo Simulation