Krish Shah

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EDUCATION

Boston University **Boston, Massachusetts**

*Bachelor of Science in **Computer Engineering**, Concentration in **Machine Learning*** *Sep 2022 – May 2025*

- **College of Engineering FIRST Robotics Presidential Scholar** (2 awarded/class)
- **Related Coursework:** Linear Algebra, Differential Equations, Discrete Math, Probability, Statistics & Data Science, Data Structures & Algorithms, Software Engineering (OOP), Software Design, Operating Systems, Data-Driven Decisions, Machine Learning, Cloud Computing, Business of Tech Innovation, Financial Risk Management, High Performance Programming.

SKILLS

Programming: Python, C++, Java, JavaScript, Typescript, SQL, MATLAB, VBA
Libraries/Frameworks: Pytorch, Numpy, Matplotlib, Pandas, Scikit-learn, Tensorflow, React
Technologies: AWS, GCP, Docker, Kubernetes, MongoDB, PostgresDB, Snowflake, Tableau, Git, JIRA, Agile, ETL, CUDA, CI/CD
Certifications: Bloomberg Market Concepts, Bloomberg Finance Fundamentals, Options 101, Beacon Certified Quant Developer

WORK EXPERIENCE

Kolochalama Laboratory **Boston, Massachusetts**

Research Intern *Sep 2024 – Present*

- Developed a Retrieval-Augmented Generation (RAG) system for Alzheimer's diagnosis using research papers, implementing hallucination detection and source attribution. Integrated custom embedding model, FAISS vector database, and fine-tuned LLM, achieving 85% source coverage and 90% factual consistency in diagnoses.

Beacon Platform Inc **New York, New York**

Financial Engineering Intern *May 2023 – Sep 2024*

- Decreased POC setup time by 50% and boosted client conversion rates by 20% by engineering the Equity Derivatives Accelerator, integrating equity trades, options, and futures. Utilized Bloomberg Market Data, Kafka, and High Volume Trade Capture for real-time processing, improving trial experiences and portfolio management.
- Streamlined RFI responses by 40% and enhanced data privacy by creating a secure, locally-hosted AI chatbot with open-source language models, automating feedback loops for enhanced operational efficiency.
- Reduced scenario analysis time by 40% and improved stress testing accuracy by developing a Scenario Generation Application for custom market shocks, leveraging a flexible risk management framework.

Princeton Equity Group **Princeton, New Jersey**

Data Engineering Intern *Jan 2022 – Sep 2022*

- Built a Python-based time series forecasting algorithm for FusionPoint™ platform, improving merger and acquisition opportunity detection by 20% and reducing market intelligence computation time by 15%.
- Implemented Python-based Natural Language Processing models to analyze 6,000+ acquisition target websites, increasing successful target identification by 30% and contributing to $500,000 annual savings in due diligence costs through data.

Princeton Plasma Physics Laboratory **Princeton, New Jersey**

Research Intern *Sep 2021 – Jan 2022*

- Constructed a framework for real-time fusion data analysis on high-performance computing resources, using GPU-accelerated kernels to reduce execution time by 45% and improve efficiency by 50%, collaborating US DOE and NERSC.

PROJECTS

State Street: Automation of Snowflake Resource Deployment Using Harness and Liquibase

Team Lead, Lead Engineer *Sep 2024 – Present*

- Reduced manual deployment time by 40% and improved consistency by 30% by architecting and implementing CI/CD pipelines using Liquibase and Harness for Snowflake resource management. Developed a scalable, secure solution with role-based access control, boosting security compliance by 25% and reducing errors by 20%.

Citadel Summer Datathon

Team Lead, Lead Data Modeler, 1 of 100 selected from a pool of ~7,000 Applicants *July 2024 – Aug 2024*

- Achieved 85% prediction accuracy by leading a team in developing a multi-factor model for food desert emergence, integrating economic, business, and public health data. Conducted time series and spatial autocorrelation analysis to assess the impact of dollar store proliferation on grocery store viability in low-income areas, using USDA and web-scraped data.

LEADERSHIP & ACTIVITIES

Boston University Jalwa Dance Troupe **Boston, Massachusetts**

Secretary, Executive Board *Sep 2023 – Present*

Boy Scouts of America **Jacobstown, New Jersey**

Eagle Scout, Assistant Scoutmaster, Senior Patrol Leader, Silver Palm (Top 0.016%), Order of the Arrow *Dec 2017 – Present*