

Raiyan Bhuiya

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[LinkedIn](#)

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science, Specialization in Machine Learning

Atlanta, Georgia

May 2025

Texas A&M University

Bachelor of Science in Computer Science, Minor in Statistics

College Station, TX

May 2022

SKILLS

- **Languages:** Python, C++, C#, Java, Scala, R, SQL, JavaScript, HTML, CSS
- **ML / AI:** PyTorch, TensorFlow, TensorRT, scikit-learn, NLTK
- **Cloud / Infrastructure:** AWS (Lambda, S3, Glue, Aurora, API Gateway), Git, REST APIs
- **Web / Databases:** .NET, Angular, MySQL, SQL Server

EXPERIENCE

LPL Financial

Remote Work

Software Engineer (Rotation)

June 2024 - Present

- Developed features for the Secured Credit Account Pilot, launching a new securities-based lending product.
- Built HIL form for POAC automation, replacing a manual process and significantly reducing advisor onboarding turnaround time and operational overhead.
- Developed in-browser live editor for HIL forms reducing testing time by 80%
- Improved FAST UI/APIs for the automated Advisor Onboarding platform, enhancing reliability and developer experience across the advisor lifecycle workflow.

Software Engineer

- Architected a serverless ETL pipeline (Python Lambda, API Gateway, AWS Glue) to automate nightly S3-to-Aurora parquet transfers, reducing processing time from 2 hours to 15 minutes (87% reduction).
- Resolved critical bugs in the Reconciliation breaks API, eliminating gateway errors and restoring reliable performance for a high-traffic financial data pipeline.
- Produced BPUG technical documentation mapping dependencies and data flows for DIS jobs, improving cross-team visibility.

Aug 2022 – May 2024

Santarem Project

College Station, TX

3D Modeler - Team Lead and Researcher

Aug 2021 – April 2022

- Led a team of undergraduate researchers to process geospatial datasets (SRTM elevation, GIS) to reconstruct geospatial models and build an interactive web visualization of the city of Santarem, Portugal.
- Authored and published a research thesis on the data pipeline and results to the Texas A&M OAKTrust institutional repository.

PROJECTS

Algorithmic Trading Strategy with Reinforcement Learning

- Built a Q-Learning-based trading agent in Python trained on JPM and S&P 500 historical data, combining three technical indicators (Price/SMA ratio, Bollinger Band %, Stochastic Oscillator) to generate buy/sell/hold signals.
- Implemented a BagLearner ensemble of Random Trees (leaf size 5, 6 bags) that outperformed a rule-based manual strategy on out-of-sample data, achieving a cumulative return of up to 68.9% vs. benchmark.

Key-Value Memory Network for Wikipedia QA

- Implemented a Key-Value Memory Network (KVMemNet) from scratch in PyTorch using attention mechanisms to answer natural language questions about historical figures from the Wikipedia Biography dataset.