

Sharif Haason

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PROFESSIONAL HISTORY

- Monark Markets** | *Product Engineer* | New York, NY Apr 2026 – Current
- Contributed client-requested features to the primary offering, a fullstack .NET/Spring/NextJS alternative markets platform.
 - Solely developed the demo for Evergreen Funds Omnibus with tight deadlines and feedback loops, securing future clients.
 - Owned Python integration with third party data providers, communicating with partners and implementing data best practices.
 - Acted as technical contact as the sole in-office engineer, liaising between non-technical stakeholders and remote engineers.
- OurFirm.ai** | *Data Engineer* | New York, NY Feb 2026 – Apr 2026
- Built scrapers for court websites for judge and court-related information as a data source for an AI platform for litigators.
 - Managed a team of builders, directing them to scrape websites, monitoring their progress, and giving feedback on their output.
 - Conducted extensive data cleaning in concert with the full stack developer to maintain a high quality Postgres database.
 - Independently created onboarding documents and videos as needed and an agentic workflow for automatic scraper builders.
- El Mashta LLC** | *AI Engineer* | New York, NY Jun 2025 – Sep 2025
- Provisioned servers for general development workload, GPU inference, and GPU training, cutting \$300/month in server costs, using Terraform and Kubernetes to create robust declarative infrastructure as code.
 - Containerized an ML model for virtual try-on clothing to be deployed on a serverless endpoint on-demand, which after slimming dependencies and precompiling models was cut down to under a minute from a several minute cold start.
- Cloudnosys, Inc** | *DevSecOps Engineer* | Atlanta, GA Jun 2023 – Sept 2024
- Developed security control methods in JavaScript with the AWS SDK API for an auditing service on AWS cloud accounts, which exposed OS vulnerabilities, misconfigurations, and malware defined in official AWS documentation.
 - Managed an AWS cloud account for the purposes of debugging signatures and configured it to test security flaw detections, provisioning resources when needed to thoroughly check resource related security, and deprovisioning when finished.

PROJECTS & AWARDS

- Implied Willow Tree for Derivatives** | *Quantitative Research Capstone* | Hoboken, NJ Sept 2025 – Dec 2025
- Dong et al. modeled the risk-neutral process by implying risk-neutral densities from equity options at different maturities and transitioning between discretized nodes of those densities, which could theoretically be extended to any liquid options market.
 - My capstone used 10Y Treasury futures options data to model the 10Y Treasury yield, using martingale and no-arbitrage principles as well as capital markets information to derive a new objective function and constraints for numerical optimization.
- High Frequency Trading Competition** | *University Competition* | Hoboken, NJ Mar 2025 – May 2025
- Won second place by implementing a market making strategy, using VWAP to predict market trends and adjusting order size.
 - Led the team and delegated tasks to my teammates, such as backtesting and research, and took notes during meetings.
 - Set up infrastructure on GitHub, wrote Python code for backtesting and some of the algorithms, and acted as point of contact when IT issues arose related to a bug with the HFT library SHIFT and the FIX protocol data.
- Hornet Trading Contest** | *Class Project* | Hoboken, NJ Feb 2025 – May 2025
- Participated in a trading contest in a Risk Engineering class for zero coupon bonds, forwards, calls, and puts on USDMXN.
 - Wrote VBA code to calculate Greeks for each type of instrument traded: Delta, Gamma, USD and MXN Rho, and Vega.
 - Used macro information from current events on Bloomberg to correctly predict a falling dollar and adjust my delta exposure.
- NBA Defensive Impact Analysis** | *Personal Project* | South River, NJ Jul 2024 – Aug 2024
- Cleaned gigabytes of raw data from an API to remove unnecessary columns and changed their types to fit better in memory.
 - Created backoff infrastructure to call from the API repeatedly and accumulate data without hitting rate limits while caching it.
 - Converted analysis from Pandas dataframes to SQL tables, synced to an MSSQL Server on Azure SQL for use with Power BI.
- NBA Reddit AI Chatbot** | *Personal Project* | South River, NJ Dec 2023 – Jan 2024
- Created a chatbot built on a Langchain RAG of the top daily posts and comments on the NBA subreddit, using prompt engineering to tune the output's understanding of NBA slang and the structure of posts and comments that it ingested.

EDUCATION

- Stevens Institute of Technology** | Hoboken, NJ Dec 2025
- Master of Science, Financial Engineering*
- Awards & Honors:** Stevens Master's Scholarship
- Rutgers University** | New Brunswick, NJ Jan 2024
- Bachelor of Science, Computer Science*

SKILLS

Programming & Frameworks: Python, C++, SQL, R, Rust, FastAPI, React, Next.js, JavaScript, Tailwind CSS, VBA, Java

Data Science & GenAI: Pandas, NumPy, SciPy, Scikit-learn, PyTorch, Matplotlib, Seaborn | Gemini, Claude Code, Codex

Cloud, Databases & DevOps: Linux, Bash, AWS (IAM, EC2, ECS, EKS, S3), GCP, Azure, Docker, GitHub Actions, Git, Jira, boto3, PostgreSQL, Azure SQL, Terraform, Databricks, Power Apps, Power BI

Quantitative Finance: Monte Carlo, Finite Difference, Binomial/Trinomial Trees, Curve Bootstrapping, Pricing/Hedging Derivatives (Options, Swaps, CDOs), Risk Management (Greeks, DV01, Duration, Convexity) | Bloomberg Terminal, FIX