

Moosa Irfaan

Software Engineer — Applied ML & Financial Systems

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EDUCATION

NEW YORK UNIVERSITY

Masters of Science in Computer Engineering

New York, NY

SEPT 2026 - Present

ST. JOSEPH'S UNIVERSITY, NEW YORK

Bachelors of Science in Computer Science and Mathematics

Patchogue, NY

SEPT 2022 - MAY 2026

PROFESSIONAL EXPERIENCE

VERRI LABS INC.

New York, NY

Software Engineer (Founding Engineer)

JUNE 2026 - PRESENT

- Architected and built Scout, an automated security-response platform: Python/FastAPI backend, Next.js dashboard, and a GitHub App integration that ingests repository events for automated vulnerability/finding triage
- Designed an LLM orchestration layer (Claude API) for automated security-finding triage and deployed production infrastructure (Vercel, Supabase, Resend) supporting the platform

PEOPLE TIME

New York, NY

Software Engineer Intern

JAN 2025 - JUNE 2025

- Developed cross-platform mobile application features using Flutter with backend services in Python and Java.
- Improved application load performance by 44% through state management and rendering optimizations.

FRED SILVER & COMPANY

Ronkonkoma, NY

Web Developer

NOV 2024 - JAN 2025

- Built an internal inventory management platform that automated manual Excel-based workflows for business operations.
- Optimized application performance through caching strategies and efficient data processing pipelines.

PROJECTS

The IT Audit System — IT General Controls Testing Automation

Python • SQL • PostgreSQL • Claude API

- Built an ITGC control-testing platform automating segregation-of-duties, terminated-user-access, and change-management audit tests with SQL-based rule engines, risk-based sampling, and an LLM-generated audit workpaper draft/review workflow

Autocutter — AI-Powered Video Rough-Cut Tool

Python • FastAPI • React • Claude API

- Built a full-stack AI video editing pipeline that transcribes and scores footage to auto-generate a rough cut, cutting personal editing time from 6+ hours to under 2 hours — combines faster-whisper transcription, LLM-based segment scoring (Claude API) against target length/theme, and a constraint-based selection algorithm, with dual export to Final Cut Pro (FCPXML) or a custom React drag-and-trim timeline editor.

EDGAR Financial Dashboard — Real-Time SEC Filing Pipeline

Python • FastAPI • SQLite • React • XBRL

- Developed a full-stack data engineering pipeline ingesting SEC EDGAR XBRL 10-K filings into a RESTful FastAPI backend with SQLite — implemented idempotent ETL ingestion via INSERT OR IGNORE constraints, engineered a multi-key schema resolver handling inconsistent third-party API responses, and deployed to cloud infrastructure on Railway with automated startup ingestion.

FilingRisk — 10-K Volatility Predictor

NLP • Hugging Face Space • Financial Text Classification

- Deployed a model as a Hugging Face Space that reads excerpts from a company's annual report (10-K) and predicts whether forward stock-price volatility will increase relative to its historical baseline

SKILLS

Languages: Python, JavaScript, TypeScript, Java, Dart, C++, SQL, HTML/CSS

Frameworks & Libraries: React, FastAPI, Node.js, Flutter, scikit-learn, XGBoost, Recharts

Tools & Infrastructure: Git, GitHub Actions, Vite, Playwright, Redis, PostgreSQL, SQLite, SQLAlchemy, ffmpeg, dnd-kit

ML/AI: Hugging Face Transformers, NLP, LLM orchestration (Claude API), model calibration, real-time inference, computer vision (MediaPipe), speech-to-text (faster-whisper)

ORGANIZATIONS

NYU Graduate Student Council (Programming Commissioner), NYU Tandon Consulting Club, NYU IEEE, NYU Tandon Space Exploration Club, NYU Entrepreneurial Exchange Group (Startup Team)