Muhammad Moosa

Computational Finance Student | Financial Data Analysis | Investment Research Aspirant

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Summary

Computational Finance student with experience in Python development, financial datasets, and fintech applications. Skilled in data analysis, SQL, backend systems, and automation with strong interest in investment research, capital markets, and financial analytics. Interested in opportunities in research, analytics, asset management, and quantitative finance.

SKILLS

Financial & Data Analysis: Pandas, NumPy, Matplotlib, SQL, yFinance, scikit-learn, financial datasets, analytics

Programming: Python, JavaScript

Backend & Web Technologies: FastAPI, Django, Flask, React, REST APIs, WebSockets

Databases: MySQL, PostgreSQL, MongoDB (NoSQL)

Cloud & DevOps: AWS, Docker, Git, CI/CD, Linux

PROJECTS

PSX Grid – AI Based Stock Analysis Platform (live demo)

- PSX Grid is an AI-integrated analysis platform that utilizes a RAG (Retrieval-Augmented Generation) system to provide data-driven insights and automated research for the Pakistan Stock Exchange..

GoofCoin - Prototype Cryptocurrency (live demo)

- Developed GoofCoin, a prototype cryptocurrency using Django, REST APIs, and React, with blockchain logic and cryptographic algorithms to enable secure transactions.

TalkTopia - Chatroom App (live demo)

- Developed TalkTopia, a real-time chat application using Django and AWS WebSocket, featuring public, private, and topic-specific chat rooms for dynamic user interaction.

EDUCATION

NED University of Engineering & Technology - *BS in Computational Finance* — *Expected July 2027*

Government College for Men Nazimabad - *Pre-Engineering HSCC* — *2021 - 2023*

Al-Murtaza School - *Matriculation SCC* — *2019 - 2021*

EXPERIENCE

JS Investments – *Software Engineering Intern (IT Dept)* — *July 2025 – August 2025*

- Developed Python-based data collection and analytics tools to analyze digital engagement trends across asset management companies and identify lead-generation insights.
- Built automation workflows for collecting and processing social media data across LinkedIn, Instagram, and Facebook.
- Worked with structured datasets, APIs, and analytics pipelines to support internal analysis initiatives.

CERTIFICATIONS

- AI Engineer PIAIC
- CS50 Web By Harvard
- CS50 Python By Harvard
- CS50X By Harvard