

SUMMARY

Software Development Engineer with 2+ years of experience in Java and Python, specializing in scalable microservices and data-intensive systems. Experienced in distributed caching, SQL/NoSQL optimization, and ML-driven fintech solutions.

EXPERIENCE.

Software Development Engineer | Sharekhan

Jun 2024 - Present

- Designed and implemented an in-memory caching layer to store over 5 million customer orders, which lowered database load time from 10ms to 1ms and improved request latency.
- Modernized legacy services by introducing Spring Boot microservices, Kafka messaging, Redis caching, and Docker/Kubernetes.
- Optimized SQL performance across Oracle, PostgreSQL, and MySQL, improving query response times by 20%.

Data Science Intern | Neo Group

Jun - Aug 2023

- Developed 2 automated HFT/MFT trading strategies with robust back-testing pipelines and parameter sweeps, which led to a 25% improvement in simulated returns.
 - Evaluated strategy performance across diverse market regimes and integrated feedback-driven improvements and risk controls, reducing potential drawdown.
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PROJECTS

M.Bond – Alternate Bond Pricing Platform (SEBI Hackathon GFF'25)

[Project Link](#)

An inventive pricing algorithm that fractionalizes bond ownership by assigning fair price to each fraction considering time-to-maturity, yield, and credit risk. Built for SEBI Hackathon, aimed to increase liquidity in the bond market through innovative pricing strategies.

FPL Manager - Multi-Criteria Decision Making (IEEE Publication)

[Paper Link](#)

Utilized Fuzzy-AHP for criteria weighting and GridSearchCV for model selection to optimize team picks, achieving a top 1% in global FPL ranking. The results were published with IEEE.

TECHNICAL SKILLS

Languages: Java, Python, Golang, C

Backend & Frameworks: Spring Boot, Django, Flask, Java Servlet, Tomcat

Cloud & DevOps: AWS, Docker, Kubernetes, Podman, WebLogic

Data & Messaging: Oracle SQL, PostgreSQL, MySQL, Redis, Kafka, JMS, Java-Multicast

ML & Analytics: Pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Matplotlib, Plotly, Tableau, Power BI, Excel, MCP

EDUCATION

B.Tech in Computer Science & Engineering (Data Science) | DJ Sanghvi College of Engineering

2020-2024

CGPA: 9.18/10

HSC (Science) | Khar Education Society

2018-2020

89.5%

AWARDS

Winner DJS-S4DS DataHack (National level)

HackerRank SQL Gold Badge; Kaggle Bronze Medalist

LEADERSHIP

Machine Learning & Analytics Mentor | DJSCE Compute | Oct 2021-Dec 2023

Mentored over 12 juniors in Python and ML, creating 20+ assignments and reviewing progress to address their doubts.