

# Abhijeet Chatterjee

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## WORK EXPERIENCE

### Intern - Software Developer

#### Fidelity International

Jan 2025 – July 2025

- Cloud Migration & Containerization:** Migrated 10+ Java microservices to **Kubernetes**, managing container versioning in **Harbor** and implementing liveness/readiness probes via Spring Boot Actuator for **automated health monitoring**.
- Release Operations (GitOps):** Managed daily deployment cycles using **Jenkins** for continuous integration and **ArgoCD** for continuous delivery, analyzing sync logs and pod events to troubleshoot and resolve production rollout failures.
- Infrastructure Reliability:** Diagnosed complex **Kubernetes** networking issues (proxy/egress timeouts) causing N-1 dependency failures, implementing configuration fixes to restore stability for distributed financial systems.

## PROJECTS

### StoxAI – India & US Market Analyzer

Jan 2026 - Mar 2026

- Orchestrated a **distributed ETL workflow** using **AWS Step Functions** and **Lambda** to transform 5+ years of raw market data for 1,000 tickers into a high-performance **Parquet Data Lake**.
- Developed a **custom MCP (Model Context Protocol) Server** on **AWS Lambda**, enabling LLM agents to execute real-time SQL queries using **AWS Athena** and technical screens via a structured **JSON-RPC API**.
- Built an **Agentic RAG Pipeline** integrating Perplexity's **Sonar** with an **S3-based knowledge base** to automate cross-referencing technical signals with corporate 10-K/Annual reports.
- Designed a Professional-Grade **Streamlit UI** featuring a "Smart Intent Planner" that **reduced API overhead by 40%** through optimized tool-calling logic and state synchronization.

### NIFTY Tracker & Strategy Simulation

Nov 2025 - Dec 2025

- Architected a **real-time event-driven pipeline** utilizing **AWS Glue** and **RabbitMQ (using Amazon EC2)** to orchestrate **high-frequency data ingestion** and strategy calculations with 1-minute latency.
- Engineered an **end-to-end data flow** by developing custom **Python Shell ETL jobs** to consume message queues and perform complex strategy logic, persisting results into **Snowflake** for scalable storage.
- Developed an **interactive analytics dashboard** using **Streamlit** to visualize real-time strategy outputs, providing stakeholders with actionable insights derived from the Snowflake data warehouse.

### Indian Market Risk Dashboard

Sep 2025 - Oct 2025

- Architected a serverless **ETL pipeline** using **AWS Lambda**, **S3**, and **EventBridge Scheduler** to **automate daily ingestion** of stock and crypto market data.
- Designed a **Medallion Architecture (Bronze/Silver/Gold)** in **Snowflake**, using **AWS Glue** and **SQL window functions** to compute complex risk metrics (volatility, Sharpe ratio).
- Developed an interactive **Streamlit** dashboard for risk analytics and integrated **AWS SNS** to trigger Slack alerts for pipeline failures.

## SKILLS

- Languages:** Python, SQL, Java, JavaScript, C/C++
- Database:** MySQL, MongoDB, Snowflake, Parquet
- Frameworks:** Streamlit, Flask, Spring Boot, Nextjs, React/Native
- Tools:** Jenkins, Postman, Harbor, Nexus, ArgoCD, AWS, Azure, Kubernetes
- Soft Skills:** Teamwork, Adaptability, Communication, Attention to Detail

## EDUCATION

### Manav Rachna International Institute of Research and Studies, Faridabad

Bachelor of Technology in Computer Science and Engineering (AIML)

8.7 GPA

## CERTIFICATION

**Microsoft Certified:** Azure Data Scientist Associate

May 2024

**Microsoft Certified:** Azure Data Engineer Associate

Dec 2023

**Coursera:** Google Advanced Data Analytics

Nov 2023

**IBM SkillsBuild:** Deep Learning with TensorFlow

Aug 2023