

SAUBHAGYA CHOPRA

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EXPERIENCE

JPMorgan Chase & Co. | Java, Spring Boot, Angular, REST APIs

Jan 2024 – May 2026

Software Development Engineer

Bengaluru, India

- Architected and owned enterprise banking applications (**Java Spring Boot + Angular + REST APIs**) serving as the firm's application backbone, delivering **20+ business workflows and 25+ REST endpoints** across frontend, backend, validation, integration, and deployment layers, with controller-service architectures, **DTOs**, request validation, and exception handling codified as reusable patterns for consistent, production-ready feature delivery.
- Built **CI/CD pipelines** from scratch using **Jules**, implementing **Blue-Green** and **Canary** deployment strategies across 3 environments, automating build, validation, deployment, and environment-promotion workflows, reducing manual deployment effort by **60%** and average release time by **40%** with consistent, low-risk releases.
- Engineered **ETL pipelines** (end-to-end ownership) using **Apache Airflow**, **AWS Glue**, Glue Crawlers, and **Amazon S3**, orchestrating **10+ recurring data workflows processing 1M+ records/month**, automating extraction, transformation, validation, schema discovery, and downstream data availability, reducing manual data-processing effort by **70%**.
- Built and maintained **Airflow DAGs** with dependency management, retries, scheduling, failure handling, and downstream task orchestration, sustaining **99%+ successful scheduled runs** with built-in monitoring and recovery paths that remediate failed pipeline executions without manual intervention.
- Architected production observability across **20+ application workflows** using **Splunk** and **AppDynamics**, instrumenting and analyzing API failures, runtime behaviour, deployment health, configuration issues, and application errors, streamlining log-driven root-cause analysis and reducing average troubleshooting time by **40%** across UAT and production.
- Automated **LoanIQ** operational workflows using **BMC Control-M**, including service restarts, PostDB Refresh, and BatchNet imports, saving **~40 minutes per ad-hoc operation** across recurring maintenance tasks; additionally built an in-house **RAG-based LLM** engineering assistant in **Python** grounded on engineering documentation to accelerate troubleshooting and knowledge discovery.
- Developed and optimized data-access and caching workflows for high-frequency downstream consumers, transforming enterprise warehouse data into application-ready datasets via pre-processing, materialization, and optimized retrieval patterns, eliminating **~50% of redundant database queries**, improving response latency, and reducing load on upstream systems.

PROJECTS

AI Engineering Assistant | Python, LLM, RAG

- Built an **LLM-powered** engineering assistant (**Python + RAG**) implementing document ingestion, chunking, embeddings, vector retrieval, and context-aware prompting over technical documentation, cutting repetitive troubleshooting and knowledge-retrieval effort by **~50%** across the team.

ACHIEVEMENTS

- **AWS Certified Cloud Practitioner**; **Codeforces Pupil** with highest rating of **1200+** and **900+** DSA problems solved across competitive programming platforms.
- Google Kick Start Round B 2022: Global Rank **2313**; JPMorgan Chase Code for Good Hackathon participant.

TECHNICAL SKILLS

Languages: Java, JavaScript, C++, Python, SQL, HTML/CSS | **Backend:** Spring Boot, REST APIs, Node.js, Express.js, Django

Frontend: Angular, React.js | **Databases:** MongoDB, SQL

Testing: Unit Testing, JUnit | **Cloud/DevOps/Data:** AWS, Amazon S3, AWS Glue, AWS Glue Crawlers, Apache Airflow, Private Cloud, CI/CD, Jules, Blue-Green Deployments, Canary Deployments

Automation: BMC Control-M, LoanIQ | **Monitoring/AI:** Splunk, AppDynamics, LLM, RAG | **Core:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, Git

EDUCATION

Manipal University Jaipur

Bachelor of Technology in Information Technology | CGPA: 8.8/10

2020 – 2024

Rajasthan, India