

SEJAL CHOUDHARY

Hyderabad, India | +91-7220978066 | sejalc230@gmail.com
LinkedIn: [linkedin.com/in/sej-choudhary](https://www.linkedin.com/in/sej-choudhary) | Portfolio: sejal129.github.io

SUMMARY

Senior Software Engineer with 5+ years of experience building Java/Spring Boot microservices and GCP data platforms for high-volume backend and ETL workflows. Experienced across the full SDLC, including architecture, data modeling, API design, implementation, testing, CI/CD, production reliability, and AI-assisted engineering.

SKILLS

Languages & Backend: Java, Python, SQL, Spring Boot, REST APIs, Microservices, Distributed Systems

Cloud & Data: GCP, GKE, Dataflow, BigQuery, PostgreSQL, Airflow, Apache Flink, ETL

Platform & Reliability: Kubernetes, Docker, Git, Maven, Terraform, Jenkins, Ansible, CI/CD, Prometheus, Grafana

AI Engineering: OpenAI APIs, LLMs, RAG, Embeddings, Prompt Engineering, AI Agents

Security & Quality: JUnit, API Testing, Selenium, Encryption, Secrets Management

EXPERIENCE

HSBC | Hyderabad

Senior Software Engineer | Jul 2023 – Present

- Built Java/Spring Boot microservices for HSBC Treasury's capital-planning platform, replacing spreadsheet-based regulatory workflows for **400+ analysts across Asia and Europe**.
- Owned end-to-end development of multiple Java/Spring Boot services for HSBC Treasury's regulatory capital workflows, delivering ahead of deadline with **zero production data-quality incidents**.
- Orchestrated Apache Flink ETL pipelines with Airflow, transforming Capital Planning models into Parquet and ClickHouse datasets consumed via APIs to analyze **forecast trends across reporting periods**.
- Standardized CI/CD for **25+ GKE microservices** using Jenkins, Terraform, and Ansible, simplifying deployments.
- Built Prometheus/Grafana observability, cutting production issue diagnosis from **hours to 15–30 minutes**.
- Remediated CI-detected vulnerabilities, achieving **zero blocking security findings** before production releases.
- Developed AI-assisted engineering workflows for code analysis, PR reviews, and technical summaries.
- Built a beta **Python AI Jira agent** piloted by **3–4 teams**, cutting task analysis from **~1 day to ~30 minutes**.
- Led design reviews and mentored **10+ engineers across 4+ teams**, standardizing APIs across **4–5 services**.
- Designed APIs, data models, and service contracts enabling integration across Capital modules.

HSBC | Hyderabad

Software Engineer | Aug 2021 – Jun 2023

- Built a reference-data platform used by **100+ HSBC teams**, establishing a standardized source of truth.
- Engineered GCP Dataflow pipelines processing **10M+ daily events** for downstream HSBC services.
- Built self-service APIs, reducing reference-data access from **1–2 days of manual requests to a single API call**.
- Optimized SQL and pipelines using partitioning and batching, cutting latency **60% on 75M-record workloads**.
- Migrated **20+ services** from manually deployed VMs to GKE, enabling horizontal scaling and safer releases.
- Built Grafana dashboards and alerts, improving visibility into production pipeline failures.

Earlier Experience | Internships

- Designed **reusable Java ETL** components for extraction, transformation, validation, and error handling.
 - Improved ETL workflow efficiency by approximately **40%** through reusable components and optimized processing.
 - Built Python and Selenium automation frameworks for data validation and regression testing, reducing manual effort and improving repeatability across releases.
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EDUCATION

B.Tech (Computer Science), Banasthali Vidyapith (2017–2021)