

AMAN JAISWAL

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PROFESSIONAL SUMMARY

Software Engineer building production automation, document-intelligence, and distributed backend platforms for airli and enterprise workflows. Owns systems from architecture through deployment, with depth in Python, FastAPI, Playwright, PostgreSQL,

WORK EXPERIENCE

Sabre Corporation, Bangalore

Software Engineer 3

07/2024 – Present

- Integrated an NLQ text-to-SQL pipeline using Google ADK, evaluating query accuracy with DeepEval to reduce syntax hallucinations by 25% and ensure safe data extraction from BigQuery.
- Built an automated Pull Request validation workflow connecting Rally and Jira, utilized the Model Context Protocol (MCP) to verify that incoming PRs met formatting standards and test coverage requirements.
- Collaborated on a Retrieval-Augmented Generation (RAG) backend utilizing Gemini 3.1 Flash with a vector database, optimizing text chunking and semantic search retrieval to achieve a 90% precision@k rate for internal documentation
- Built a resilient email notification microservice powered by Google Cloud Pub/Sub, ensuring guaranteed delivery of critical user updates and decoupling notification logic from core application services.
- Optimized resource utilization by implementing KEDA (Kubernetes-based Event Driven Autoscaling) for microservices on GKE, enabling the system to scale dynamically based on event queue volume.
- Acted as the primary technical liaison for internal stakeholders, translating business requirements to rapidly prototype and deploy bespoke AI features within 2-week DevOps cycles.
- Mentored new engineers and participated in design/code reviews to uphold system quality and SDLC best practices across the team.

Software Engineer

07/2022 – 06/2024

- Redesigned core microservices by shifting from a RESTful to an event-driven architecture (Rabbit MQ, Apache Camel) to decouple synchronous dependencies, ensuring high-throughput processing for asynchronous processing tasks.
- Streamlined database interactions and leveraged parallel computing to enhance system performance by 30% through optimized workflow redesign and advanced data handling techniques.
- Implemented CI/CD pipelines using GitHub Actions and GCP Cloud Build for automated testing and containerization, streamlining deployments to GKE and enabling higher release frequency.
- Reduced technical debt by leading the upgrade of core Spring Framework libraries and MongoDB drivers, migrating to MongoDB 8, resulting in improved performance, security, and long-term maintainability of the backend infrastructure.
- Integrated OpenTelemetry and GCP Trace SDKs to instrument microservices, capturing latency, request/response payloads, and error logs for performance analysis.

SDE intern

01/2022 – 06/2022

- Enhanced application reliability by authoring 100+ unit tests using JUnit and Mockito, expanding core code coverage and catching critical defects earlier in the development lifecycle.
- Designed a Selenium automation framework for frontend regression testing, integrating it directly into CI/CD pipelines to minimize manual testing overhead for the QA team.

EDUCATION & CERTIFICATION

Siddaganga Institute Of Technology

Bachelor of Engineering in Computer Science

07/2018 – 08/2022

Tumakuru, KA

GCP Professional Cloud Architect - [Link](#)

Since 01/2026

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, Groovy, C/C++

Front-End/Back-End: React.js, Tailwind CSS, Node.js, Django, Flask, Spring Boot

AI & LLM Tooling: Large Language Models (LLMs), OpenAI, Gemini, Claude, LangChain, Langgraph, RAG, Pydantic, Google ADK, Embeddings, Vector Databases (Pinecone, FAISS, Chroma), DeepEval, RAGAS, Github Copilot, AntigraVity

Distributed Systems & Cloud: GCP (GCE, GKE, GCS, BQ, Pub/Sub, Tracing, Agent Engine, Vertex AI), Rabbit MQ, Kafka
DevOps & Observability: Jenkins, Github Actions, Docker, Helm, Kubernetes, Logging & Monitoring

RECOGNITIONS / AWARDS

- 1st Place in College-Level Hackathon, Siddaganga Institute of Technology, 2022