

HEMANTH JANAPALA

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Summary

Software Development Engineer with several years of experience building event-driven microservices and high-throughput data pipelines on Azure. Led the design and delivery of an internal audit service at Walmart Global Tech, reducing audit event latency and ensuring exactly-once processing, and drove a major migration of a core reference-data pipeline that improved system reliability. Proficient in Spring Boot, Cosmos DB, and OpenSearch, with a strong focus on scalable, fault-tolerant architectures and platform security. Seeking to apply this expertise to accelerate cloud-native platform development and drive measurable performance gains.

PROFESSIONAL EXPERIENCE

Walmart Global Tech

Jun 2025 - Present

Software Development Engineer

USA

- Built a dual-store persistence layer within the audit service - real-time Cosmos DB indexing for structured audit records paired with OpenSearch index mappings and query optimization, enabling high-throughput promotion label retrieval and sub-second UI reads for promotion data queries.
- Implemented idempotent event processing with dead-letter queue (DLQ) handling to ensure exactly-once semantics and prevent duplicate audit record creation.
- Led end-to-end migration of a core reference-data pipeline from legacy Table Storage/Databricks to a modern event-driven SQL architecture processing millions of records daily for promotion targeting.
- Designed a high-throughput batch pipeline (Blob Storage → Data Factory → Event Hub → Batch Service → SQL DB), reducing processing time from 5–6 minutes to <3 minutes while eliminating Databricks costs.
- Built a scalable Spring Boot batching engine with idempotency, retries, and fault-tolerant ingestion; optimized performance via indexing, query tuning, and JDBC batching to sustain high throughput across millions of records per run.
- Ensured 99.9%+ delivery success to critical downstream systems via SQL state tracking and automated retries, reprocessing unacknowledged events within a 5-minute SLA.
- Configured Azure Monitor and Application Insights dashboards with custom alerts for event consumption rates, processing latency, and Cosmos DB write throughput - enabling proactive detection of pipeline failures before user impact.
- Led design reviews for core audit and data-pipeline systems, established team coding standards, and owned on-call rotations - driving incident resolution and knowledge-sharing across the team.
- Strengthened platform security by migrating two services from static, manually-rotated credentials to auto-rotated, workload-identity-based authentication, and by identifying and redesigning a vulnerable header-based service-to-service auth scheme using token-based verification.
- Led multi-region platform expansion into a second country and delivered a third-party pricing-tool integration end-to-end, from technical discovery through production rollout and support.
- Contributed to an LLM-based conversational agent (LangGraph, Azure OpenAI) enabling natural-language querying and validation of promotion and audit data.

Neotechsoft

Jan 2025 - May 2025

Software Engineer

Remote

- Developed Java backend services and RESTful APIs using Spring Boot, enabling integration with frontend applications and third-party systems.
- Built microservices with JWT/OAuth2 authentication to enforce secure access control.
- Designed PostgreSQL/MySQL schemas and optimized queries to support business workflows and improve performance.
- Wrote unit and integration tests using JUnit and Mockito, maintaining high code quality and reliability.
- Conducted code reviews and documented APIs with Swagger/OpenAPI, improving API consistency and easing onboarding for new developers.

KPMG

Jul 2024 - Oct 2024

Software Developer

Montvale, NJ, USA

- Developed Spring Boot microservices for enterprise financial platforms with MySQL persistence, improving reliability and response times.
- Built backend data pipelines processing large-scale transaction data, increasing throughput by ~30% through parallel processing and partition optimization.
- Containerized services with Docker and deployed to Kubernetes, ensuring scalability and high availability.
- Designed RESTful APIs with Spring MVC and documented them using Swagger, enabling real-time analytics and internal integrations.

Ernst & Young (EY)

Mar 2021 - Nov 2022

Software Engineer

India

- Designed and maintained Java backend services for fintech and enterprise applications using Spring MVC and Git, which increased system reliability and reduced downtime.

- Built Spring Boot microservices that integrated relational databases and MongoDB, streamlining data access and enabling faster feature delivery.
- Diagnosed and resolved performance bottlenecks to improve scalability and responsiveness.
- Implemented CI/CD pipelines with Jenkins and Git, automating build, test, and deployment workflows and cutting release time.
- Collaborated cross-functionally in Scrum teams to deliver features on schedule.
- Authored technical documentation using Confluence and Markdown, incorporating Git version control and code examples, which accelerated onboarding and improved knowledge transfer for new team members.

Skills

- **Languages:** Java, Python, SQL, JavaScript, C/C++
- **Frameworks:** Spring Boot, Spring MVC, FastAPI
- **Databases:** MySQL, PostgreSQL, SQL Server, Cosmos DB, MongoDB, OpenSearch
- **Messaging & Streaming:** Kafka, Azure Event Hub
- **AI/Agent Frameworks:** LangGraph, LangChain, Azure OpenAI
- **Cloud & DevOps:** Azure, Docker, Kubernetes, GitLab CI/CD
- **Security & Auth:** JWT, OAuth2, Azure AD Workload Identity
- **Data & Architecture:** Event-driven systems, batch processing, distributed systems, high-throughput pipelines
- **Web:** HTML, CSS, JavaScript, AngularJS
- **Tools:** IntelliJ IDEA, Git, Gradle
- **Methodologies:** Agile (Scrum), SDLC
- **Operating Systems:** Linux, Windows

EDUCATION

University of North Texas	Jan 2023 - Dec 2024
<i>Master of Science, Computer Science</i>	<i>Denton, TX, USA</i>
VNR Vignana Jyothi Institute of Engineering & Technology (VNR VJIET)	2017 - 2021
<i>Bachelor of Technology, Computer Science</i>	<i>Hyderabad, India</i>