Urvashi Ramdasani

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Backend and data-focused Software Engineer (3.5+ years) currently working as SDE III at Walmart Global Tech India. I specialize in building low-latency APIs, distributed data processing pipelines, and production-grade automation—ranging from Spring Boot and FastAPI services to Spark-based processing engines and autonomous agentic workflows on GCP.

Technical Skills

Frameworks: Spring, Spring Boot, REST APIs, JPA, JWT, Spring Security, FastAPI, LangGraph, Spark, Airflow
Languages: Java, Python, C++
Cloud Technologies: GCP, Kubernetes, Docker
Databases: PostgreSQL, BigQuery

Experience

Walmart Global Tech India | *Software Development Engineer III*   **(Sep 2024 - Present)**

- Built a hierarchical multi-agent system using **FastAPI** and **LangGraph** with a **PostgreSQL-backed** stateful memory and async tool execution, enabling reliable handling of non-deterministic workflows.
- Engineered an automated **LLM evaluation framework** to benchmark agents on golden datasets and generate latency/accuracy reports, enabling **data-driven RCA** for hallucinations.
- Developed an operational monitoring service in **Spring Boot** to aggregate metrics from distributed systems, improving observability and reducing manual engineering overhead by **80%**.
- Designed high-performance REST APIs with **server-side pagination, sorting, filtering and distributed caching**, significantly reducing database load and maintaining response times under **50ms**.
- Drove technical ownership of the orchestrator and monitoring services by leading design discussions/reviews, performing thorough PR reviews, and mentoring newly joined engineers through onboarding and project handover.
- **Keywords**: Distributed Systems, State Management, Operational Automation, Scalability, Observability, Asynchronous Processing

Walmart Global Tech India | *Software Development Engineer II*   **(Jun 2022 - Sep 2024)**

- Optimized **Spark**-based processing engines (**partitioning, memory tuning**), cutting job execution time by **50%**, reducing cloud compute costs.
- Augmented scalable ingestion pipelines in **Python** and **Apache Airflow** for batch and incremental loads into the Data Lake, ensuring consistent data quality and meeting strict SLAs across heterogeneous sources.
- Led the initial design and implementation of a **multi-batch processing mechanism** that grouped datasets by SLA, allowing compatible loads to run together, simplifying operations and reducing overall cloud compute cost.
- **Keywords**: Performance Tuning, Query Optimization, Cloud Cost Optimization, Workflow Orchestration, Data Consistency, ETL/ELT Architecture

Crest Data Systems | *Software Engineer Intern*   **(Jan 2022 - May 2022)**

- **Implemented a Network Monitoring Application** using **Python**, implementing scripts to capture, parse, and ingest real-time network logs for analysis.
- Leveraged **Splunk** to build interactive dashboards and complex search queries, transforming raw log data into actionable insights for operational improvements.
- **Keywords**: Network Monitoring, Insight Generation, Real-Time Data Analysis, Log Parsing

Awards & Achievements

- Recognized as a pivotal contributor for fast-tracking delivery of the multi-agent system, leading the design and implementation of the **Read Agent**.
- Recognized for architecting self-service platforms such as an **automated back-testing framework** and a **simulation environment** on GCP, enabling Product teams to run independent validations and simulations, reducing turnaround time by **1 day** per feature iteration.

Education

Institute of Technology, Nirma University   **Jun 2018 – Jun 2022**
Bachelor of Technology   GPA: 8.32/10   *Ahmedabad, Gujarat*