Asutosh Padhi

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EDUCATION

Indian Institute of Technology Guwahati   Guwahati, India
M.Tech. Computer Science   *2019 – 2021*

Vivekandand Education Society's Institute of Technology   Mumbai, India
B.E. Information Technology   *2015 – May 2019*

EXPERIENCE

Software Development Engineer 3   Aug 2023 – Present
Walmart Global Tech   *Bengaluru*

- On-call Automation through MCP: Built an automated on-call debugging platform using MCP servers, REST APIs, and distributed workflows, reducing MTTR to approximately 10 minutes
- Error Reprocessing Application for Order Management System: Designed and implemented a distributed, multithreaded exception management system using Java, Kafka, SQL, and event-driven architecture, reducing exception volume by 34%
- High-Impact Business Initiatives in Ecommerce: Led high level and low level design and development of revenue-generating initiatives (Cross Border Trade, AutoCare and OPD), projected to drive over $500 million in GMV
- Customer Communication Platform Improvements: Led the design and development of a feature enabling customers to receive order SMS updates on a phone number of their choice, reducing customer complaints by 4%

Software Development Engineer 2   July 2021 – July 2023
Walmart Global Tech   *Bengaluru*

- Ownership of High-Throughput Microservices: Owned and scaled two high-throughput microservices handling 15k+ TPS for event scheduling and aggregation, leading feature development and RTB initiatives across Cosmos, Cassandra, and Kafka to improve system stability and performance
- Message suppression framework: Designed and implemented a communication suppression framework using Java and Cosmos, to stop scheduled messages during disasters (e.g., cyclones, shootings), delivered under tight and time-sensitive timelines
- Performance Testing Environment: Engineered the performance testing script using JMX to mock all available flows and recreate it in a separate lower environment, enabling impact analysis, effectively reducing 100% of the rollbacks caused by performance issues
- Migration to Kubernetes: Drove code and infrastructure changes to migrate 5 production applications from VM-based deployments to Kubernetes, improving scalability and operational consistency

PROJECTS

Expense Tracker | *Python, MySQL, MCP*
- Developed an app to track expenses using gmail MCP to extract expenses and save it to SQL DB
- Used LLMs to answer queries and show expenses to the user

SKILLS

Languages: Java, Python(GenAI usecase)
Frameworks: Spring, REST, Langchain, Flask, FastMCP
Distributed Systems: Kafka, Microservices, Hazelcast, Async Processing
Databases: Cosmos, Cassandra, MySQL (SQL and NoSQL)
Cloud and Infrastructure: Azure, Kubernetes
Testing and CI/CD: JUnit, Cucumber, Jenkins, Maven, Git, Prometheus
GenAI: LLM-based systems, MCP, RAG

AWARDS

SPOT Award (2025, 2024, 2022): For leading critical business initiatives and increasing stability for Tier 0 applications
Wall of Fame (2022): For delivering multiple features exceeding expectations and managing 2 microservices as a fresher