

AMEESHA PRIYA

Software Engineer – Backend, Distributed & FullStack Systems

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SUMMARY

Backend-focused Software Engineer with 4+ years architecting distributed systems across finance, healthcare, and e-commerce. Expert in building scalable microservices using Java, Kafka, Spring Boot, and Kubernetes on AWS/GCP/Azure. Proven track record delivering production-grade solutions with quantified business impact.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML, CSS, GraphQL

Frameworks & Libraries: Spring Boot, ReactJS, Node.js, JUnit, Mockito

Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, Terraform, Helm, CloudFormation

Data & Streaming: Kafka, Kinesis, Databricks, MongoDB, Redis, Cassandra, Neo4j, Spark, S3

Tools & Infrastructure: gRPC, Git, Postman, JIRA, VSCode, IntelliJ, Eclipse, SonarLint, Nginx, Jupyter

PROFESSIONAL EXPERIENCE

Software Development Engineer, Capstone Project

January 2024 - December 2024

Sheetz (via Carnegie Mellon University)

- **Scaled Sheetz's operations from 700 to 1300 stores** by developing an event syndicator to streamline data flow into Databricks, enabling 85% faster data processing across retail locations.
- Identified optimal event streaming solution by evaluating Kafka, Kinesis, and Pulsar on AWS using Nginx & Apache JMeter, **processing 500,000+ events/second** and selecting Kafka for 40% superior performance.
- **Increased system scalability by 75%** and reduced critical system alerts by 40% using SolarWinds monitoring, ensuring seamless expansion capacity for **1.5x future growth**.

Software Development Engineer

June 2022 - July 2023

Bank of America

- Delivered automation tools for Merrill Lynch derivative trading, **eliminating 100% manual effort** weekly and reducing SLA breaches by 60%.
- Improved production batch stability by 85% through automated monitoring systems, **handling \$50M+ daily trading volume**.
- Led technical liaison role between US-India teams, reducing outage resolution time by 45% and supervised 3 engineers.
- Architected scalable microservices for counterparty risk management, **processing 10K+ transactions daily**.

Software Development Engineer

July 2021 - June 2022

Brillio

- **Configured and refined API infrastructure** by migrating SOAP based application to REST and adding JDBC for database-application connection.
- Improved code integration, and conducted extensive unit tests and **endpoint testing using Postman achieving 85% coverage**.
- Developed robust microservices using Spring Boot+ReactJS (**backend+frontend framework**).
- Enabled **seamless data integration and migration** in Verizon's 5G domain by developing APIs, establishing a multi-source data pipeline through automation scripts and comprehensive documentation (LLD, HLD, flow diagrams).

Associate Software Development Engineer

August 2020 - July 2021

Accenture

- Delivered critical features and stability for AstraZeneca's VeevaCRM solutions as the key developer for iPatient, **managing feature implementations and bug fixes** under tight deadlines reducing system downtime by 20%.

ACADEMIC PROJECTS

Stream Processing with Kafka and Samza - Developed and analyzed a real-time data processing system by using Apache Kafka as the messaging system to handle large streams of incoming data and Apache Samza for processing these streams with minimal delay on AWS.

Containers: Docker and Kubernetes - Containerized and orchestrated microservices using Docker and Kubernetes on GCP and Azure, enabling scalable and reliable application deployment and management.

Machine Learning on the Cloud - Implemented and deployed an end-to-end machine learning pipeline on GCP, enhancing model accuracy through feature engineering and hyperparameter tuning.

EDUCATION

School of Computer Science, Carnegie Mellon University

December 2024

Master of Software Engineering (Courses: Cloud Computing, Software Architecture, WebApp / **TA:** Engineering Data Intensive Scalable Systems,QA)

Kalinga Institute of Industrial Technology

July 2020

Bachelor of Computer Science and Engineering

AWARDS AND ACHIEVEMENTS

- **Silver Award** - Bank of America (Q1 2023)
- Top 4 – **Accenture x Salesforce Hackathon** (2021)