

Madhavi Nakirikanti
Software Developer

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Summary:

Software Engineer with ~4 years of experience delivering scalable platform and backend solutions using Java, Spring Boot, React, and AWS. Experienced in building secure APIs, data pipelines, and cloud-based services that support business-critical workflows. Adept at working in agile, product-oriented teams to deliver reliable, data-driven systems that directly impact customer experience and business outcomes.

Technical Skills:

Programming Languages	Java (17+), JavaScript (ES6+), TypeScript, Python, C#, .NET
Databases	PostgreSQL, Oracle, MS SQL Server, MongoDB, RedShift, Dynamo DB
Backend & Frameworks	Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Spring Cloud, Spring Batch, OAuth 2.0, JWT, Apache Kafka, Node.js
Data & ETL	AWS Glue (ETL, data transformation), Amazon S3 (data lakes, partitioning), Snowflake (Data Warehousing, SQL)
CI/CD & Build Tools	Maven, npm, Yarn, GitHub Actions, GitLab CI/CD
Web Technologies	HTML, CSS, XML, JSON, SOAP, WSDL, REST, JSP, React js, javaScript, Angular js
Web/Application Servers	Apache Tomcat, JBoss, IBM WebSphere, Oracle WebLogic Server 14+, JVM, Graph
Cloud Technologies	AWS (EC2, ECS, S3, Glue, Athena, API Gateway, Lambda), Docker, Kubernetes, IAM, CloudWatch, CloudFormation
Testing Tools	Cypress, Jasmine, Selenium, Chai, Protractor, Junit, Mockito
Monitoring & Observability	Splunk, metric, cloud watch
Agile Methodologies	Sprint Planning, Development, Testing, and Deployment

Professional Experience

Amazon

Duration: June 2025 - Present

Role: Software Developer II

Responsibilities:

- **Designed and shipped high-throughput backend services** for Amazon Stores using **Java 17 and Spring Boot**, supporting critical workflows with strict latency and reliability requirements.
- **Built and standardized REST APIs** with strong validation, exception handling, and backward compatibility, enabling safe adoption across multiple dependent services.
- **Developed large-scale AWS Glue ETL pipelines** processing data from **Amazon S3**, enabling downstream analytics and reporting for business stakeholders.
- **Architected an S3-based data lake** with partitioning and lifecycle policies, improving query performance while reducing storage costs.
- **Implemented event-driven and batch workflows** integrating **S3 events, Glue, and Lambda**, ensuring fault-tolerant data processing.
- **Deployed and operated services on ECS and Kubernetes**, achieving high availability and zero-downtime deployments.
- **Integrated Apache Kafka** for asynchronous messaging, decoupling producers and consumers across distributed systems.
- **Introduced Redis caching** to reduce database load and significantly improve API response latency under peak traffic.
- **Owned production monitoring and on-call readiness**, using **CloudWatch logs, metrics, and alarms** to proactively detect and resolve issues.
- **Improved code quality and long-term maintainability** by writing unit and integration tests with **JUnit and Mockito**.

Zemoso Technologies
Role: Software Developer

Duration: Oct 2020- Dec 2022

Responsibilities:

- **Owned full stack features end-to-end**, building scalable web applications using **React, Java, and Spring Boot**.
- **Designed RESTful APIs** and integrated **OAuth 2.0 / JWT**, enabling secure communication between frontend and backend services.
- **Built reusable React components and shared UI patterns**, accelerating feature development across projects.
- **Optimized database queries and schemas** using PostgreSQL, improving performance under high-volume traffic.
- **Automated CI/CD pipelines**, reducing manual deployment effort and improving release reliability
- **Containerized services using Docker** and deployed to cloud environments for scalable production usage

NCR Corporation
Role: Associate Software Developer

Duration: Jan 2020 - Oct 2020

Responsibilities:

- **Developed Java-based backend services** for banking and payment validation workflows with strict accuracy requirements.
- **Implemented validation, exception handling, and audit logging**, ensuring compliance with financial standards.
- **Built and tested REST APIs** using Spring and JUnit, improving system reliability.

EDUCATION:

Master's in computer science - 2024

University of North Texas, Texas, USA

Bachelor's in computer science- 2020

Shri Vishnu Engineering College from Women, India