

# Abhishek Singh

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## PROFESSIONAL HIGHLIGHTS

- 6 years of experience in full-stack development across finance, insurance, retail, telecom, and HR domains.
- Built an **Agentic AI** framework with a reasoning loop to create and interact with custom LLM-based agents, with support for third-party agents via **Model Context Protocol (MCP)** integration.
- Built REST and **GraphQL** APIs using **Java**, **Spring Boot**, and **NestJS**; handled auth, throttling, caching, and fault tolerance; scaled to handle **10,000+** users.
- Built front-end interfaces using **Angular**, **React**, and **Material** libraries with focus on accessibility and offline support; optimized to reduce initial load times by **40%**.
- Used **PostgreSQL**, **MySQL**, **MongoDB**, and **DynamoDB**; optimized indexes and queries for low-latency reads and configured replication for availability.
- **AWS Certified Developer – Associate**; provisioned a variety of **AWS** services with **CloudFormation** for **IaC**.
- Integrated **Datadog**, **ELK**, **Grafana**, and **LogRocket** for monitoring, debugging, and usage analytics.
- Used **Docker** and **Kubernetes** for container builds, orchestration, and scaling.
- Practiced **TDD** using **JUnit**, **Mockito**, **Jest**, and **Jasmine**. Strong advocate for **Agile**.

## EXPERIENCE

### SIEMENS | SOFTWARE ENGINEER

March 2024 - Present | Remote

#### TECH STACK - JAVA | SPRINGBOOT | ANGULAR | POSTGRESQL | AWS

- Built **Agentic AI Framework** with **Reasoning Loop** for **LLM-Based Multi-Modal Agent** creation and third-party integration via **Model Context Protocol (MCP)**.
- Implemented **Dynamic Tool Orchestrator** with external tool integration, **Execution Scheduling**, and real-time alerts.
- Applied **Chain Of Thought** and **Act-First** prompting to reduce token usage by **30%**.
- Integrated observability to track **Token Consumption**, **Execution Latency**, and **User Satisfaction**.
- Enabled **Agent-To-Tool** and **Agent-To-Agent** communication with controlled context sharing and execution flow.

### EPAM SYSTEMS | SOFTWARE ENGINEER

Aug 2023 - March 2024 | Gurugram, Haryana

#### TECH STACK - JAVA | SPRINGBOOT | REACT | POSTGRESQL | AWS

- Developed an **Enterprise Service Bus (ESB)** with **Custom Data Transformation**, **Batch Processing**, and **Parallelization** to reduce exchange latency by **40%**.
- Built an **Asset Classification And Protection (ACP)** tool with **SOP Modeler**, enforced **Role-Based Access Control (RBAC)** and **Audit Logging** per asset and procedure.
- Implemented **Real-Time Alerts** and **Anomaly Detection** for unauthorized changes across physical and virtual assets.

### DELOITTE | CONSULTANT

Jan 2022 - Aug 2023 | Gurugram, Haryana

#### TECH STACK - NESTJS | REACT | DYNAMODB | AWS

- Built claims processing dashboard for insurance ops, using **Machine Learning** to flag fraudulent claims.
- Used **AWS Step Functions** for orchestration across services, unified data access via **GraphQL**.
- Integrated **Kafka** with **WebSockets** for real-time call alerts and event-driven notifications.

## TATA CONSULTANCY SERVICES | SYSTEMS ENGINEER

Aug 2019 – Jan 2022 | Indore, Madhya Pradesh

### TECH STACK - JAVA | SPRINGBOOT | ANGULAR | MONGODB | AWS

- Created a dashboard for policyholders to view insurance details via a unified interface
  - Built a **Camunda**-based workflow to issue **Letter Of Authority (LOA)** to authorized entities
  - Migrated application from on-premise servers to **AWS**, enabling scalability and resilience
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## SKILLS

### FRONTEND TECHNOLOGIES

- JavaScript, TypeScript, Angular, React, HTML, CSS
- Redux, NgRx, RxJS
- Bootstrap, Angular Material, Material UI

### BACKEND & APIs

- Java, Spring Boot, Hibernate, Java EE
- Node.js, NestJS, Express.js
- GraphQL
- PostgreSQL, MongoDB, DynamoDB, Redis

### CLOUD, DEVOPS & CI/CD

- AWS (ECS, SQS, SNS, S3, CloudWatch, CloudFormation)
- Docker, Kubernetes
- Git, Jenkins, Bamboo

### MONITORING, ANALYTICS & MESSAGING

- Apache Kafka, WebSockets
  - Datadog, LogRocket, Splunk, Quantum Metric, ELK
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## CERTIFICATIONS

### AWS CERTIFIED DEVELOPER - ASSOCIATE

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## EDUCATION

### SRM INSTITUTE OF SCIENCE & TECHNOLOGY | BACHELOR OF TECHNOLOGY

July 2015 - May 2019 | Chennai, Tamil Nadu

GRADUATED WITH DISTINCTION