

# Abhishek Singh

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## EXPERIENCE

### SIEMENS | SOFTWARE ENGINEER

Mar 2024 – Present | Bangalore

- Built an **Agentic AI Framework** with a reasoning loop and **Model Context Protocol (MCP)** integration.
- Implemented multi-tenant **SSO** with **Dynamic Client Registration**, auth-server discovery via **PRM**, and full **PKCE** / token-lifecycle management as per **MCP**.
- Developed a **WebSocket**-based chat interface backed by **Redis Pub/Sub** for message channels and asynchronous backups to **S3**.
- Created **Kibana** dashboards for metrics including tokens consumed, average response time, and agent latency.

### EPAM SYSTEMS | SOFTWARE ENGINEER

Aug 2023 – Mar 2024 | Gurugram

- Developed an **Enterprise Service Bus (ESB)** supporting data transformation and parallel batch execution.
- Led migration from **Angular 16 -> 19** and **Jakarta 8 -> 10** across shared libraries and app modules, including creation of migration scripts and guides for upstream consumers.
- Ensured 90% plus unit test code coverage using **Karma, Junit & Mockito** as well as end to end testing using **Cypress**.

### DELOITTE | CONSULTANT

Jan 2022 – Aug 2023 | Gurugram

- Built an insurance claims dashboard using **React** with fraud-detection using machine learning and a **GraphQL** aggregation layer to support the dashboard.
- Integrated **Kafka** and **WebSockets** for real-time notifications from on-call events.

### TATA CONSULTANCY SERVICES | SYSTEMS ENGINEER

Aug 2019 – Jan 2022 | Indore

- Built an **Angular** dashboard consuming **REST APIs** built using **Springboot** for policyholder information.
- Migrated on-premise services to **AWS EKS**.

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## SKILLS

**Languages:** Java, C++, TypeScript, JavaScript, SQL, HTML, CSS

**Frameworks:** Spring Boot, Hibernate, Java EE, Node.js, Angular, React

**Databases:** PostgreSQL, MongoDB, DynamoDB, Redis

**Cloud / DevOps:** AWS (EKS, SQS, S3, CloudWatch), Docker, Kubernetes, Git, Jenkins

**Monitoring / Messaging:** Kafka, WebSockets, Datadog, ELK, Grafana

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## CERTIFICATIONS

### AWS CERTIFIED DEVELOPER – ASSOCIATE

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## EDUCATION

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

Jul 2015 – May 2019 | Chennai, Tamil Nadu

**GRADUATED WITH DISTINCTION**