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.
- Created exhaustive documentation in confluence including migration scripts and guildes.
- 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 with fraud-detection models using **Scikit-Learn** on **AWS Lambda**.
- Used **AWS Step Functions** to coordinate services and exposed data through **GraphQL**.
- Integrated **Kafka** and **WebSockets** for real-time notifications.

TATA CONSULTANCY SERVICES | SYSTEMS ENGINEER
Aug 2019 – Jan 2022 | Indore

- Built an **Angular** dashboard consuming **REST APIs** for policyholder information.
- Implemented a **Camunda BPMN** workflow to issue **Letters Of Authority (LOA)**.
- Migrated on-premise **Java EE** applications to **AWS EC2** and **RDS**.

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

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

CERTIFICATIONS

AWS CERTIFIED DEVELOPER – ASSOCIATE

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY | BACHELOR OF TECHNOLOGY (INFORMATION TECHNOLOGY)
Jul 2015 – May 2019 | Chennai, Tamil Nadu
Percentage – 85