Kartik Jajal

Lead Software Engineer | EPAM Systems

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🪪 Summary

Lead Software Engineer and Solution Architect with over 14 years of expertise in Java, Spring Boot, Microservices, distributed systems and cloud technologies. Specialized in designing and delivering scalable solutions for digital banking innovations using cutting-edge technologies.

Spring Boot | Microservices | Kafka | AWS | Docker | Kubernates | System Design | Gen AI Solution architect | Team lead & management | Client liason | Agile & Scrum

💼 Professional Experience

08/2021 – Present

Lead Software Engineer(Solution Architect)
EPAM Systems
Project: Banking As A Service
Technologies: Spring Boot, Kafka, MongoDB, Dynatrace, OpenSearch, AWS, Docker, Kubernetes, Microservices

- Designed and developed robust Open Banking APIs to enable seamless integration with third-party systems.
- Led a team of developers to deliver scalable and efficient technical solutions, ensuring high-quality deliverables.
- Architected a resilient solution to support automatic resumption of customer onboarding in the event of process failures.
- Enhanced system performance by implementing caching mechanisms for onboarding session entities using a ThreadLocal design.
- Enabled real-time system monitoring and insights using Dynatrace and OpenSearch, improving operational visibility and system reliability.
- Built a highly fault-tolerant system to ensure maximum uptime and resilience in handling failures efficiently.

01/2019 – 08/2021

Senior Java Developer
Mobiquity Inc
Project: Neo Bank
Technologies: Spring Boot, RabbitMQ, AWS, Docker, Kubernetes, Microservices

- Developed a Neo Bank platform seamlessly integrating with the underlying Temenos T24 core banking system.
- Developed unit tests with JUnit and Mockito, ensuring robust code quality and reliability through Test-Driven Development (TDD).
- Designed a scalable and highly available system architecture to support seamless operations and growth.

01/2015 – 01/2019

Tech Lead
Intech Creative Services
Project: Automated EDI Workflow for Container and Yard Operations

Technologies: Java (8+), Spring Boot, RabbitMQ, RESTful APIs, Postgresql, Ehcache, Docker, Kubernetes, AWS,OAuth2, JWT, JUnit, Mockito, Maven

- Designed and implemented microservices for EDI file processing using Java, Spring Boot, and Apache Camel, enabling seamless integration with external systems.
- Developed scalable distributed systems using multithreading (CompletableFuture, ForkJoinPool), ThreadLocal caching, and asynchronous messaging with Kafka or RabbitMQ for efficient EDI workflows.
- Built and deployed containerized applications with Docker, Kubernetes, and AWS (EC2, S3, RDS), ensuring high availability, scalability, and fault tolerance using circuit breakers.

03/2014 – 12/2014   **Java Developer**
G K Management Services (India) Limited
Project: High-Speed Caching for Domestic Airlines Data
Technologies: Java, JSP, Spring (MVC), Hibernate, Jackson Parser, Dropwizard, PostgreSQL, Memcached.

- Developed scalable web applications using Java, JSP, Spring MVC, and Hibernate, optimizing PostgreSQL interactions. Built RESTful APIs with Dropwizard and Jackson Parser for efficient JSON processing and system integration.
- Implemented caching solutions using Memcached to improve application performance and reduce response times for frequently accessed data.

07/2011 – 03/2014   **Software Engineer**
Elitecore Technologies
Project: Packet Capture & Monitoring
Technologies: Java, JSP, Spring (MVC), Hibernate, Tcpdump, shall scripting, PostgreSQL.

- Implemented packet capture functionality for TCP/UDP traffic using TCPDump and processed captured data for analysis in a web-based UI.
- Developed dynamic web interfaces using Java, Spring MVC, and frontend technologies to visualize real-time network traffic and analytics efficiently.

02/2011 – 06/2011   **Project Trainee**
Elitecore Technologies
Project: Payment Gateway Integration and Tracking System
Technologies: Java, JSP, Spring (MVC), Hibernate, shall scripting, PostgreSQL.

- Integrated secure payment gateways like HDFC Payment Gateway and MyGate, enabling real-time payment processing for credit cards, debit cards, and online banking transactions.
- Developed and deployed payment tracking and notification systems to streamline registration and renewal processes for customer packages.

🎓 Education Qualification

06/2011	**MCA**
	S.S.I.T
	June-2011
	Gujarat University

03/2007	**B.Com**
	M.P.Shah College
	March-2007
	Saurashtra university

🧠 Technical Skills

Languages & Framework
Java/J2EE, Spring boot, Spring cloud, WebSocket, JPA, Hibernate, Spring cloud gateway(Microservices), Rest API

Framework
Spring boot, Spring cloud (Microservices)

Event Streaming
Apache Kafka, RabbitMQ

Cache
MemCached, Redis

Tools
Wireshark, Tcpdump, NTRadPing, Postman, Offset Explorer, GitHub, Intellij IDE

Architecture
Microservice, Sagas design, Idempotent Operations, Circuit Breaker

Domain Knowledge
Open Banking, Neo/Digital Bank, BaaS, Telecom billing, RADIUS Protocol, AAA, Travel, Shipping & Logistics.

Web Technology
HTML, Java Script, JQuery, JSON.

Cloud Platform
AWS, Docker, Kubernates

Columnar Databases
PostgreSQL, MySQL

Gen AI
Langchain4j, Spring AI, Retrieval Augmented Generation (RAG), Vector Database

NoSQL Databases
MongoDB, AWS DocumentDB, AWS DynamoDB

Distributed Monitoring
Dynatrace, OpenSearch/Kibana

RFC / Standards
RADIUS, AAA, OTA, Open API, Open Banking

🔭 Professional Skills

Solution architect, Team management, Team lead, Client liason, Microservice architecture & implementation, Design patterns, Backend expert, Web socket, Agile & Scrum

🏅 Certifications

2024	**AWS Solution Architect Associates**
2022	**AWS Developer Associates**
2020	**Backbase Certified Backend Developer**
2014	**Oracle Certified Java Developer**

🧠 Pet Projects

Agentic AI Forecaster

A Spring Boot application that integrates Azure OpenAI to provide an AI-powered chat agent for forecasting sunrise, sunset times, and marine weather conditions. Includes RESTful endpoints and automated CI for building and testing. This application uses a Retrieval-Augmented Generation (RAG) mechanism to enhance AI responses with real-time data fetched from open-metio.

Framework : Spring boot, Langchain4j
Link : ai-forecaster-chat-agent

Table Serve AI

Developed a restaurant menu chatbot that leverages AI to provide personalized menu recommendations, answer customer queries, and enhance the dining experience. Designed a scalable microservice architecture for efficient response handling and seamless integration.

Framework : Spring boot, Langchain4j, Qdrant
Database : Qdrant Cloud Vector DB
Link : table-serve-ai