Saravana Kumar

Technical Architect | Solution Architect | Enterprise Architect

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My Profile Page

Professional Summary

Seasoned Solution Architect with over 17 years of experience in designing, architecting, and delivering scalable, cloud-native, and enterprise-grade solutions. Proven expertise in Java/Kotlin, Spring Boot, Microservices, and cloud platforms (AWS, Azure, GCP), along with 5+ years of experience in React JS, Angular, and Node.js. Adept at leading end-to-end application modernization, Al-driven architecture, DevOps automation, and observability implementation. Strong domain experience in healthcare, retail, fashion tech, and telecommunications, with a focus on building highly resilient and maintainable systems through architectural best practices including DDD, SOLID, and Reactive Programming.

Core Competencies

- Solution Architecture: Microservices, Event-Driven Architecture, API Gateway, Domain-Driven Design (DDD)
- Backend & Frontend: Java 21, Kotlin, Angular, ReactJS, Vite, Spring Boot, WebFlux,
- **DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Terraform, EPAM Delivery Platform
- Cloud Platforms: AWS (EC2, ECS, X-Ray), Azure (App Insights), GCP (GKE)
- Databases: PostgreSQL, MongoDB, MySQL, , CosmosDB, Oracle, DynamoDB
- Observability: Prometheus, Grafana, AWS CloudWatch, Azure Applnsights
- Messaging & Streaming: Apache Kafka, Confluent, RabbitMQ, ActiveMQ
- Tools & Others: JHipster, Temporal, Git, NGINX, Tomcat, Gradle, Maven, Jira, Stripe payment gateway integration
- Business Intelligence Tools: Superset

Experience Achievements

Designed and implemented cloud-native architectures across AWS, Azure, and GCP using Spring Boot, Java/Kotlin, and Microservices.

- Built an **AI-powered fashion-tech solution** converting 2D designs into 3D products with Angular, Vite, and JHipster.
- Built full-stack solutions using React JS, Angular (7–15), Redux, and Node.js for retail
 and healthcare domains
- Created a Reactive Microservice Architecture using Spring WebFlux, R2DBC, and Kafka for scalable data ingestion and processing.
- Developed **custom DDD-based microservice templates** leveraging **SOLID principles**, enabling faster onboarding and maintainable codebases.
- Implemented **distributed long-running workflows** using **Temporal.io**, with automatic retries and observability.
- Established **Observability Frameworks** using **AppInsights, CloudWatch, AWS X-Ray, Prometheus, Grafana**, and **OpenTelemetry**.
- Led the **transformation of legacy systems to microservices**, improving system resilience, modularity, and deployment agility..
- Integrated Stripe Payment Gateway, OAuth2.0, JWT-based token security, and
 Spring Security AOP for secure and compliant applications.
- Engineered event-driven systems with Kafka, Schema Registry, and audit log processors for transaction traceability.
- Pioneered Micro Frontends with Vite, reducing frontend release cycles and enabling independent deployments.
- Migrated multiple monolithic applications to microservices, introducing Jhipster scaffolding API Gateway, CI/CD pipelines, and Dockerized deployments.
- Mentored teams on Hexagonal framework, Domain Driven Designs, Solid principles,
 Reactive Programming, and architecture best practices, enhancing code quality and team maturity.

Professional Experience

Ideas2IT Technology Services Pvt. Ltd.

Technical Architect | *Mar 2023 – Present*

- Architected cloud-native e-commerce and healthcare platforms using AI and microservices principles.
- Developed event-driven systems with Kafka, WebFlux, Temporal, and PostgreSQL.

- Led full-stack delivery with JHipster backend and Vite/React frontend integration.
- Implemented observability using AWS X-Ray and Azure Applinsights for proactive monitoring.
- Delivered scalable Kubernetes deployments using GKE and ECS.

Project Experience

Retail Jewel Design & Fashion Tech (Jan 2025 – Present)

Role: Solution Architect

Key Highlights:

- Building a retail e-commerce solution for jewel design conversion from 2D to 3D using tokens and automated flow.
- Angular & Vite frontend, Spring Boot (JHipster) backend with Al-based image conversion logic.
- Created MVP for AI use cases: 2D to 3D product visualization.
- Enabled JHipster API Gateway and microservice setup on Docker containers in EC2/ECS.
- Configured multi-module build, OAuth-based login, Angular Material UI, and PostgreSQL DB.
- Developed Stripe payment integration, Kafka-based async communication, and audit logging.
- Architecture Documentation: Context, Component, Sequence Flow, and Data Models.

Healthcare Workflow Automation (Jul 2024 – Dec 2024)

Role: Enterprise Architect

Client: Confidential Key Highlights:

- Designed reusable Hexagonal Microservice Template with DDD & SOLID principles.
- Implemented Reactive Spring WebFlux, R2DBC, and Database Auditing Framework.
- Created Business Rules Validation Framework using Spring AOP with custom annotations.

- Orchestrated long-running distributed workflows using Temporal.
- Built Angular Redux-based Façade State Management and Vite micro frontends.
- Observability: Implemented Applnsights, AWS X-Ray, CloudWatch.

Financial Planning & Analysis – Fullstack Architect (Jul 2023 – Jun 2024)

Client: Finance (U.S. based)

Key Highlights:

- Enterprise SaaS financial planning product with far reaching integration capabilities with multiple ERP, CRM systems and has self-service analytics as capabilities with financial budgeting and forecasting being core capabilities
- Architected Java 21 based microservices using Spring Boot 3.2.0, WebFlux, and JHipster.
- Setup micro frontends with Vite, integrated with Azure App Services.
- Used R2DBC (Reactive Relational DB) and Liquibase for DB migrations.
- Created audit log processor microservice for transaction data across services.
- Built Spring AOP loggers, custom annotations for execution tracking.
- Used Temporal workflows for retry and scheduling needs.
- Implemented stripe payment gateway, OAuth2, and JWT Token Validation.
- DevOps: Jenkins CI/CD, Docker containers, Azure Pipelines.

TCS – Solution Architect (Aug 2016 – Mar 2023)

Client: Retail (Dutch Supermarket Chain)

Key Highlights:

- Led solution architecture for Offer Management System (Product + Customer-based pricing).
- Implemented DDD-based pricing engine using Spring Boot 2.x, Java 17.
- Built Kafka-based data ingestion for pricing events from external suppliers.
- Developed Spring Cloud Gateway, OpenAPI Specification v3 documentation.
- Created Angular 9-based UI, Redux with NGRX, and secured micro frontends.
- Setup container orchestration using Docker and Kubernetes.

• Integrated Prometheus, Grafana, and Applnsights for observability.

Client: Telecom (U.K. MVNO)

- Migrated monolith to microservices for subscription management and billing.
- Built Angular 7 to Angular 11 migration, introduced lazy loading modules and RxJS optimizations.
- Developed Spring Security OAuth, JWT token-based authentication.
- Cognizant Technology Solutions Technology Specialist (Sep 2010 Aug 2016)

Client: U.S. Telecom Major Key Highlights:

- Developed network provisioning services using SOAP/REST, JAXB, JAX-WS.
- Migrated legacy EJB systems to Spring MVC, introduced REST endpoints.
- Developed secure APIs with role-based access control, SSL mutual auth.

Client: Healthcare

- Implemented claim adjudication workflows, data privacy filters, and access layers.
- Automated compliance workflows using Spring Batch, Quartz Scheduler.

CSS Corp – Senior System Analyst (Jan 2008 – Sep 2010)

Client: U.S. Online Advertisement Platform Key Highlights:

- Designed and developed MVC-based Java applications for ad-deal lifecycle.
- Integrated Apache Axis, JMS, and Spring DAO for SOA implementations.
- Built workflow management system for creative delivery and campaign setup.

Education

- MBA in Entrepreneurship, Bharathiar University (Distance Education)
- M.Sc. Software Systems (5-Year Integrated), R.V.S. College, Bharathiar University

Certifications

Microsoft Certified: Azure Solutions Architect Expert

- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Data Fundamentals
- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: DevOps Engineer Expert