



# Saravana Kumar

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## Professional Summary

- Fullstack Architect with 17+ years of expertise in designing scalable APIs, Microservices, and enterprise-grade applications.
- Specialized in Java, Kotlin, and Spring Boot for backend, and Angular, ReactJS for frontend.
- Experienced in AI-driven development and accelerating application delivery using JHipster for backend and Vite for frontend.
- Proven track record in leading cloud-native transformations, DevOps automation, and observability solutions across multiple domains including healthcare, retail, and telecommunications.

## Technical Skills

**Backend:** Java, Kotlin, PHP, Perl

**Frontend:** Angular, ReactJS

**Databases:** PostgreSQL, MySQL, Oracle, CosmosDB, MongoDB

**Cloud Platforms:** Azure, AWS, GCP

**CI/CD:** Jenkins, EPAM Delivery Platform

**Observability:** AppInsights, Prometheus, Cloud Watch

**Frameworks & Architecture:** Spring Boot, Hibernate, Microservice, SOLID Design Principles

**Messaging & Streaming:** Apache Kafka, Confluent Kafka, RabbitMQ, ActiveMQ

**Tools & Technologies:** Docker, Kubernetes, Jenkins, Prometheus, Grafana

**Others:** Jira, Nginx, Tomcat, Apache2, Maven, Gradle

## Professional Experience

**Ideas2IT Technology Services Pvt. Ltd. | Technical Architect | Mar 2023 – Present**

- Architected an AI-powered e-commerce platform enabling token-based 2D-to-3D jewel design conversion with scalable cloud deployment.
- Architected backend REST APIs and automated workflows using Kafka and Temporal for a healthcare platform.
- Enhanced financial planning SaaS solutions by integrating multi-factor authentication and Superset for advanced data visualization.
- Designed and developed distributed monolithic services, provisioning Google Kubernetes Engine (GKE) clusters for efficient cloud operations.
- Built a React-based dashboard with real-time Socket.io integration and jspreadsheet functionality for enhanced user interaction.
- Developed reusable SASS components and implemented observability solutions using AWS X-Ray and Azure App Insights.

## Experience Achievements

- Led the design and development of a Spring Boot application integrated with Angular 9+, enabling appointment scheduling, reminder notifications, and audit event tracking.
- Developed reusable Microservice components, including a Business Rules Validation Framework for pre-approval rules validation and a Hexagonal Microservice Template for standardized development.
- Implemented a custom annotation using Spring AOP for method execution time logging, with Circuit Breaker and Resilience4J integration.
- Built a Façade framework and Redux store in Angular for efficient state management of application components.
- Successfully orchestrated build and deployment pipelines across multiple environments using Jenkins and the EPAM delivery platform.
- Demonstrated expertise in containerization using Docker, deploying applications seamlessly across diverse environments.
- Leveraged containerization with Docker to streamline application deployments across diverse environments.
- Developed end-to-end observability solutions using AppInsights and AWS X-Ray, ensuring comprehensive application monitoring.
- Designed and implemented a distributed workflow with Temporal, enabling efficient handling of long-running processes and distributed states.
- Created MVC-based custom templates for advertisement deals and forecasting, enhancing scalability and user engagement.

## Project Details Recent Project Highlights

- **Architected Cloud Infrastructure Designs** – Designed and implemented scalable cloud architectures, including Context, Component, Sequence Flow, and Model diagrams, ensuring robustness and high availability for healthcare and retail applications.
- **Full-Stack API Development & Leadership** – Developed RESTful APIs and Spring WebFlux components for seamless integration with downstream systems, while overseeing frontend-backend development using Vite, React, and Angular.
- **Microservices Development & Optimization** – Led end-to-end Microservice enhancements, including bug fixes, unit testing, component testing, integration testing, and performance testing to ensure system reliability.
- **Database Design & Performance Optimization** – Designed efficient database models and optimized SQL queries for improved application performance and scalability.
- **Accelerated Development with JHipster, Vite** – Set up base code structures using JHipster, streamlining development for Spring Boot-based applications, ReactJS and accelerating project timelines.

**Project Domain:** Retail Jewel Design & Fashion Tech (Jan 2025 – Present)

- Developed an e-commerce platform that facilitates token-based conversion of **2D jewel designs into 3D models**, streamlining the goldsmithing process.
- Designed and deployed EC2 and ECS environments for scalable application hosting.
  - Integrated AI models seamlessly to automate 3D image generation from 2D designs.
  - Utilized JHipster for backend scaffolding and Vite for frontend scaffolding, accelerating the application's initial setup.

Tata Consultancy Services Pvt. Ltd | Assistant Consultant | Aug 16 – Mar 23

- Designed and implemented Microservice architectures for retail pricing, segmentation, and offer management systems, serving a leading Dutch supermarket chain.

- Developed low-code Domain-Driven Design (DDD) models and delegator methods, leveraging OpenAPI Specification (OAS 3.0) for an API-first design approach..

- Led the modernization of MVNO services, migrating applications to Angular 9+ and Java-based Microservices, significantly improving scalability and performance.

Cognizant Technology Solutions Pvt. Ltd | Technology Specialist | Sep 10 - Aug 16

- Automated network provisioning for wired and wireless communication systems for a US-based telecom client.

- Developed secure frameworks and test management components to strengthen application security and compliance.

CSS Corp Pvt. Ltd | Senior System Analyst | Jan 2008 - Sep 2010

- Developed MVC-based custom templates to streamline advertisement deal management and forecasting

- Implemented Service-Oriented Architecture (SOA) to optimize ad-trafficking workflows, boosting revenue generation.

Education

MBA Entrepreneurship, School of distance education, Bharathiar University

Master of Science Software System (Five-year integrated course), R.V.S. College of Arts and Science, Coimbatore, Bharathiar University

- Technologies: Java 21, Spring Boot, WebFlux, R2DBC, Reactive stream, Webflux, Kafka, Postgresql, ReactJS, Stripe, AWS cloud

Project Domain: Healthcare Workflow Automation (Jul - 2024 to Dec 2024)

Developed an intelligent automation platform to streamline post-acute healthcare operations using Kafka, DynamoDB, and Temporal.

- Designed and implemented multiple automated workflows for seamless communication
- Built state services for patient state management.
- Developed child containers for task queue event organization.
- Implemented priority queues for function block call prioritization
- Technologies: Java 21, Spring Boot, Reactive stream, Temporal, Kafka, DynamoDB

Project Domain: Financial Planning & Analysis (Aug - 2023 to Jun 2024)

Enterprise SaaS solution with integrations across ERP and CRM systems, featuring self-service analytics, financial budgeting, and forecasting

- Designed and implemented Multi-Factor Authentication (MFA) with multi-tenant client
- Integrated Apache Superset for financial data visualization.
- Developed Distributed Monolithic services for data mastering, process streamlining, and workflow automation.
- Provisioned & managed Google Kubernetes Engine clusters with cloud service registry.
- Technologies: Java21, Springboot, PostgreSQL, Redis, Superset, ReactJS, JSspreadsheet

Project Domain: Healthcare Notification & Telehealth (Apr - 2023 to July - 2023)

Automated notification system to enhance clinician-patient communication and reduce administrative overhead.

- Developed real-time notifications for scheduled visits and clinician arrivals.
- Built Notification Auth and Outbound Microservices for online message processing.
- Created a Telehealth Microservice for secure video conferencing.
- Enabled video consultations for patient appointments.
- Integrated AWS X-Ray for end-to-end observability across Telehealth applications.
- Technologies: Angular 9+, Java 17, Spring Boot, REST APIs, AWS X-Ray

Project Domain: Retail Merchandise Domain (Sep - 2021 to Mar - 2023)

Developed various Microservices to manage retail pricing, offers, and product promotions.

- Built Offer MS for offer fulfillment and business rule validation.
- Created Retail Price MS for managing product prices and zone configurations.
- Developed Price Change MS to handle scheduled price updates with batch processing.
- Designed Retail Price Change Lead Time MS to optimize price change decision-making.
- Implemented Retail Price Blockades to enforce supplier pricing regulations.
- Technologies: Kotlin, Java17, Springboot, MongoDB, CosmosDB, Kafka-Confluent

Project Domain: Retail Store Operations (Jul - 2019 to Jun - 2021)

- Developed Store Segmentation Microservice for grouping stores based on location, sales, and demographics.
- Built Store Microservice for managing store operations and workflows.
- Technologies: Java11, Springboot, RESTful Web Services, CosmosDB, Universal Message, Kafka, Spring MVC.

Project Domain: Telecommunications & E-commerce (Aug - 2016 – Jun - 2019)

Developed key modules for a telecom e-commerce platform, enhancing customer engagement and order processing.

- Designed Swiper Carousel, Savings Calculator, Shopping Cart, Checkout & Payment
- Integrated Redux Store for state management and UI routing.
- Created an Order Microservice for order fulfillment and tracking.
- Implemented Facade Design Pattern to wrap and optimize service interactions.
- Technologies: Angular 9+, Java 8, Springboot, REST APIs, Spring MVC