

Soumen Karmakar

Java Solution Architect | Azure & GCP Cloud | Microservices | Kubernetes

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SUMMARY

Result-oriented and highly skilled **Senior Java Developer and Solution Architect** with over **13 years of experience** in designing and implementing robust and scalable enterprise-level software solutions. With a solid **background in onsite locations** and **customer-facing roles**, brings firsthand understanding of client needs and preferences to tailor solutions effectively. Proven expertise in **architecting end-to-end open source based applications**, optimizing system performance, and ensuring seamless integration with existing IT infrastructure. Adept at leading cross-functional teams and collaborating with stakeholders to align technology solutions with business goals. Strong analytical and problem-solving skills coupled with a deep understanding of industry best practices. Committed to staying abreast of emerging technologies and trends to drive continuous innovation.

SKILLS

Languages

Java (21), Kotlin, NodeJS, Python

Spring Projects

Boot, Data, Web services, integration, Batch, Security, cloud, modulith, hateoas, Reactive, cloud stream, RSocket

Miscellaneous

Hibernate, REST API, Netty, Apache camel, ExpressJS, Flask, Weblogic, GRPC, proto-buf, API Gateway, Struts, GraphQL

Architectures

Microservices, Event-Driven, Cloud, Moulder monolith, Serverless

Development Methodologies

Agile, Waterfall

DevOps / Tools

Git, Jenkins, Sonar, JIRA, Confluence, Docker, kubernetes, Ansible, ELK, Grafana, Azure Devops, Azure Log analytics

Frontend Tech

React, Angular, JQuery, Bootstrap, Thymeleaf

Messaging Tech

Kafka, RabbitMQ, Azure Event hubs, JMS, Google PUB/SUB

Cloud

- **Microsoft Azure**
Event hubs, AKS, Managed SQL/NoSQL DB, Storage Accounts, Log analytics, Monitor, App services, functions
- **Google Cloud Platform**
GKE, Pub/Sub, App Engine, Cloud SQL

Databases/Cache

PostgreSQL, Oracle, MySQL, MongoDB, Redis, Hazelcast, Ignite, Memcached, Elasticsearch

Domains

Telecommunications, P&C Insurance, Smart metering

PROFESSIONAL EXPERIENCE

Ericsson Limited

Solution Architect	Oct 2021 – present Reading, UK
Senior Software Developer	Nov 2019 – Oct 2021 Reading, UK
Ericsson India Global Services 	Sep 2017 – Nov 2019
Senior Solution Integrator	Kolkata, India
Cognizant Technologies Solutions 	Aug 2014 – Sep 2017
Senior Developer	Kolkata, India
Infosys Limited 	Sep 2011 – Aug 2014
Senior Systems Engineer	Bangalore, India

EDUCATION

West Bengal University Of Technology	2011
Bachelor of Technology	Kolkata, India
West Bengal council of higher secondary education	2007
Higher Secondary	Kolkata, India
West Bengal Board of Secondary Education	2005
Secondary	Kolkata, India

CERTIFICATES

Software Design and Architecture 	Kotlin for Java Developers 
University of Alberta	Jetbrains
AZ 900 -Azure Fundamentals 	Google Cloud fundamentals 
Microsoft	Google
Machine Learning Introduction 	Microsoft Certified HTML5, JavaScript 2 & CSS 3 Developer 
University of London	Microsoft
Architecting with Google Kubernetes Engine 	
Google	

CURRENT ROLE

Roles and Responsibilities includes -

Strategic Planning:

- Develop and implement strategic technology plans in line with business objectives.

- Collaborate with key stakeholders, understand business goals, and provide technology recommendations.

Solution Design:

- Lead the design and architecture of solutions, ensuring scalability, reliability, and performance.
- Create detailed technical specifications and documentation for implementation teams.

Technology Evaluation:

- Evaluate emerging technologies and assess their potential impact on current and future solutions.
- Conduct proof-of-concept studies to validate technology choices.

Team Leadership:

- Provide technical leadership and mentorship to a team of architects and developers.
- Cultivate a collaborative and innovative work environment.

Stakeholder Communication:

- Effectively communicate technical concepts to stakeholders.
- Collaborate with business leaders, project managers, and development teams to align technology solutions with business goals.

Risk Management:

- Identify and mitigate technical risks associated with solution implementation.
- Develop contingency plans for potential issues.

Performance Optimization:

- Monitor and optimize the performance of existing solutions.
- Implement strategies for scalability and resource optimization.

PROJECTS

Smart Metering - UK

2019 – present

Virgin Media - O2

The Smart Metering Implementation Program (SMIP) is an industry-led initiative in Great Britain with the objective of deploying around 53 million smart electricity and gas meters to residential and non-residential properties. The primary goal of SMIP is to offer consumers real-time insights into their energy consumption, enabling them to: 1. Effectively control and manage their energy usage. 2. Save money and decrease carbon emissions. 3. Eliminate the practice of estimated billing. 4. Make well-informed decisions when selecting energy suppliers, thus simplifying the process of switching between them. Moreover, the program seeks to support Great Britain's transition towards a low carbon economy and address the challenges related to ensuring an affordable, secure, and sustainable energy supply.

Tech stack: Spring boot, Kafka, AMQP, Oracle, PostgreSQL, MicroServices, React, Angular, MongoDB, Azure, Redis etc.

Customer Chat Portal

2018 – 2019

Zain Telecom - Iraq

This online chat service is designed for users of Zain Iraq to have their queries addressed by chat agents. I participated in design and development of the chat client application and integrating it with the pre-existing web Portal.

Tech stack: Spring boot, NodeJS, Server side events, JavaScript, RabbitMQ

Enterprise Feasibility Tool

2018 – 2019

Vodafone - India

The EFT tool allows Vodafone's corporate and circle customers to access real-time information on their network Key Performance Indicators (KPIs), such as link availability, performance, and utilization. It serves as an intermediary system between the IBM CRM portal for Vodafone and the Ericsson Network support team. Additionally, the tool automates the analysis and uploading process for field survey data, while also assessing the feasibility of enterprise projects.

Tech stack: Spring boot, Angular, PostgreSQL, GCP

IAM System

2017 – 2018

Govt. of Dubai, RTA, Dubai

Intelligent Accident Management system utilized by Dubai Roads and Transport Authority (RTA) is a sophisticated system designed to collect real-time data from all vehicles traveling on Dubai's streets. I was involved in programming the backend Rest APIs and some part of the frontend systems.

Tech Stack : Spring boot, React, PostgreSQL, AWS/GCP

Exigen Insurance Suite

2014 – 2017

AIG, US

EIS is a completely modern, modular suite of end-to-end core solutions that provide the speed to market and measurable value insurers need to realize the transformational strategies critical to success in today's insurance market. It consists of: Policy Core, Billing Core, Claim Core and Customer Core. The whole product architecture is divided in to three distinct tires which are Presentation Services Tier, Business Services Tier, and Integration Services Tier. I was responsible for customization of the backend and the frontend.

Tech Stack : Java, JSF, spring webflow, Oracle

Field Optimisation Suite

2011 – 2014

British Telecom, UK

Field Optimization suite enables effective scheduling of the staff and equipment in the field so that it can provide with the right skills in the right place to the customers. The components involved in the suite include - Field people, Field Plan, Field Reserve, Field Reports, Jobs Admin and Combined deployment plan.

Tech Stack : Java, Struts, Oracle, EJB