

Sujit Karne

Principal Software Consultant



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WWW

<https://fossgurusujit.com/>

Technical Skills

Languages: Java,

Kotlin, Python

Frameworks:

Spring Boot,

Spring AI,

Hibernate,

Express.js,

Cucumber

Frontend: React,

Next.js,

TypeScript,

JavaScript

Performance-driven software professional with 9+ years of experience in enterprise application development, AI integration, and open-source software engineering. Proven expertise in backend systems using Java/Kotlin, Spring Boot, and modern frontend frameworks like React. Strong advocate of clean architecture, DevSecOps practices, and collaborative development.

Experience

2021-12 -

Current

Team Lead - Principal Software Consultant

*Mercedes-Benz Research and Development India ,
Bengaluru, India*

Project: Catena-X

Catena-X is a European Union-funded initiative that aims to establish a trusted, open, and collaborative data space for the automotive industry. The goal is to enable seamless, secure, and standardized data sharing across the value chain, promoting innovation and transparency.

Key Technologies: Java, Kotlin, Spring Boot,

TypeScript, React, Python, Cucumber, PostgreSQL

Tools & DevOps: Docker, Kubernetes, Git, ArgoCD,

Helm Charts, Postman, IntelliJ, VS Code

Security Stack: Trivy, CodeQL, KICS, TruffleHog,

SonarQube

Key Contributions:

- Played a central role in developing interoperable microservices using Spring Boot and Kotlin for the Catena-X data space platform.
- Served as **Eclipse Foundation Committer**, contributing to open-source governance and technical steering for key components.
- Integrated secure coding practices and tooling (Trivy, SonarQube, CodeQL) into the CI/CD lifecycle, reducing critical vulnerabilities by 40%.
- Led a team of 6+ engineers, implemented agile best practices, and improved sprint velocity and delivery timelines by 20%.
- Conducted architecture reviews and design discussions with EU ecosystem stakeholders and implementation partners.

Project: Spring-AI-Nexus

An internal platform developed to simplify integration between enterprise data, APIs, and AI/LLM models using Spring AI principles — promoting scalability, modularity, and developer-friendly architecture.

AI/LLM: OpenAI,
Ollama, MistralAI,
Hugging Face,
DeepSeekAI

Databases:
PostgreSQL,
Oracle,
Couchbase,
MongoDB,
Cassandra

DevOps: Docker,
Kubernetes,
ArgoCD, Helm,
Jenkins

Security Tools:
Trivy, CodeQL,
KICS, TruffleHog,
SonarQube

Tools & IDEs:
IntelliJ, VS Code,
DBever, Postman, GitHub
Pages

Servers: Apache
Tomcat, WildFly

2019-09 -
2021-12

Key Technologies: Java, Spring AI, React, PostgreSQL

Tools: Docker, Kubernetes, Git, DBever, Postman, IntelliJ

Key Contributions:

- Spearheaded design and implementation of Spring-AI-Nexus to enable **plug-and-play integration with LLMs** like OpenAI, HuggingFace, and internal Nexus APIs.
- Created reusable modules for AI orchestration, vector storage, and prompt management — reducing integration effort by 50%.
- Led containerization and Kubernetes deployment for internal environments, improving deployment reliability and dev-test feedback loop.
- Promoted **AI explainability and modularity** by aligning system architecture with core Spring design principles (POJO-based, portable, extensible).
- Worked closely with MBRDI internal teams and EU stakeholders to define business scenarios for LLM-assisted application use cases.

Senior Software Developer

FIS Solutions Pvt. Ltd Pune, Pune, India

Project: FIS Clear Derivatives (FISCD)

FISCD is an integrated post-trade derivatives platform designed to support bilateral OTC, securities, and end-to-end back-office lifecycle processing. It provides real-time clearing, life cycle event handling, end-of-day processing, and regulatory compliance capabilities to major investment banks.

Key Technologies: Java 11, Spring Boot, Kafka, Apache POI, Groovy, Zookeeper, Angular 8, CouchbaseDB

Tools: Docker, Jenkins, Bitbucket, Swagger, Postman, IntelliJ, VS Code

Key Contributions:

- Developed and enhanced microservices for trade clearing, life cycle event handling, and reporting modules within the FISCD platform.
- Collaborated with Tier-1 banking clients (Barclays, Credit Suisse, Bank of America, Bunge) to customize features based on evolving regulatory and functional requirements.
- Led the integration of Apache POI for dynamic Excel-based reporting modules used by middle and back-office teams.
- Contributed to **proof-of-concept (PoC)** efforts involving Kafka for event-driven workflows — improving message throughput and system decoupling.

2016-02 -
2019-09

- Implemented enhancements for bilateral OTC derivatives trade processing and ensured alignment with EMIR and CFTC compliance workflows.
- Designed REST APIs and UI components with Angular for key workflows, improving usability and system traceability.
- Served as liaison between product owners, QA, and client teams for requirement gathering and production issue triaging.

Software Developer

HSBC Software Development India, Pune, Pune, India

Projects:

1. GEMS – Global Equities Management System

A middle-office web application designed for trade allocation, processing, and enrichment in post-trade equity operations across global markets.

2. ETP – Equities Trade Processing

A multi-currency, multi-entity settlement and processing system supporting both agency and proprietary trading activities.

Key Technologies: Java 8, Spring, Hibernate, Oracle 11g, ActiveMQ, AngularJS

Tools: Jenkins, SVN, Postman, IntelliJ, VS Code

Key Contributions:

- Developed trade lifecycle components to handle real-time trade allocation, validation, enrichment, and booking for global desks (New York, Hong Kong, London, Tokyo).
- Implemented message-driven processing using ActiveMQ for high-volume trade data ingestion from upstream systems.
- Designed and optimized complex PL/SQL queries for trade reconciliation and reporting workflows on Oracle 11g.
- Enhanced UI components using AngularJS to streamline user experience for back-office analysts across global time zones.
- Took ownership of critical production issues and collaborated across teams to ensure swift resolution and RCA documentation.
- Played an **individual contributor role** in requirement gathering, system analysis, and enhancement planning for new regulatory modules.

Personal Projects

FOSS-GURU – Open Source Learning Hub (In Progress)

A knowledge-sharing platform focused on Free and

Open Source Software (FOSS) technologies, designed to guide developers through curated tutorials and practical examples.

Tech Stack: React, Docusaurus, Node.js, GitHub Pages

Link: <https://fossguru-sk.github.io/foss-guru/>

Personal Portfolio – fossgurusujit.com

A modern developer portfolio showcasing projects, blogs, and open-source contributions with potential to evolve into a productized offering.

Tech Stack: React, GitHub Pages, CSS

Link: <https://fossgurusujit.com/>

Career Conversation AI Agent

AI-driven conversation agent to interact with me for professional topics in modern days.

Tech Stack: Python, Gradio, Hugging Face

Link: <https://fossguru-portfolio-agent.hf.space/>

Education

2015-05	Master Of Engineering: 85% <i>Pune University</i>
2013-05	Bachelor of Engineering: 69.125% <i>Shivaji University</i>
2009-05	Higher Secondary Certificate (12th): 71.5% <i>Kolhapur Board</i>
2007-05	Secondary School Certificate (10th): 79.69% <i>Kolhapur Board</i>

Declaration

I, hereby declare that the above details are true to the best of my knowledge.

Place: Pune

Date:

(Sujit Suryakant Karne)