

NOUFAL S

Enterprise Solution Architect | Product Engineer

Java 21 • Spring Boot • Enterprise ERP • Microservices • Event-Driven Architecture • Apache Kafka •
Spring Cloud • PostgreSQL • DevOps • AI-Augmented Development Workflow

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Designing Enterprise Software That Scales

I enjoy building enterprise software that simplifies complex business operations while remaining scalable, maintainable and adaptable for long-term growth.

Java 21

Spring Boot

Spring Cloud

Microservices

Apache Kafka

REST APIs

OAuth2

JWT

PostgreSQL

JSONB

JPA

Hibernate

Docker

Jenkins

Linux

Prometheus

Grafana

ELK

Career Snapshot

20+

Years in IT

15+

Years Software Engineering

20+

Enterprise Products

4

Countries

8+

Business Domains

3

Enterprise Products Architected

Java

Primary Platform

Now

Enterprise ERP & Execution Intelligence

Executive Profile

I am an **Enterprise Solution Architect and Senior Software Engineer** with more than **15 years of experience** designing, developing and modernizing enterprise software across ERP, Project Management, Sports Federation, Education, Fleet Management and Construction domains. My expertise extends beyond software development into **solution architecture, technical leadership, system modernization and product engineering**, helping organizations transform business processes into scalable, maintainable enterprise platforms.

My recent work focuses on building **Spring Boot enterprise applications, distributed microservice ecosystems, event-driven architectures, high-performance reporting platforms, workflow automation, and execution intelligence systems** capable of supporting thousands of daily business transactions. I specialize in transforming complex business domains into scalable, maintainable enterprise software products that remain adaptable as organizations evolve — mentoring teams, improving engineering practices and delivering production-ready solutions that continue evolving long after deployment.

Selected Expertise

Enterprise Architecture

- Enterprise ERP Design
- Spring Boot Microservices
- Domain Driven Design
- REST API Architecture
- Legacy System Modernization
- Technical Leadership

Distributed Systems

- Apache Kafka
- Spring Cloud Gateway
- Configuration Server
- Service Discovery
- OAuth2 & JWT Security
- Workflow Automation

Data & Performance

- PostgreSQL JSONB

DevOps & Operations

- Linux Production Servers

- Performance Optimization
- Advanced SQL
- Reporting & Analytics
- JPA / Hibernate
- Database Design

- Jenkins CI/CD
- Docker
- Prometheus
- Grafana
- ELK Stack

Technology Stack

Languages

- Java 21
- PHP
- Python
- JavaScript
- SQL

Backend Frameworks

- Spring Boot
- Spring MVC
- Spring Security
- Spring Data JPA
- Hibernate
- Zend Framework
- CodeIgniter

Architecture

- Enterprise ERP
- Microservices
- Monolithic Applications
- REST APIs
- Event Driven Architecture
- Workflow Automation
- System Modernization

Cloud & Integration

- Spring Cloud Gateway
- Configuration Server
- Service Discovery
- Apache Kafka
- Swagger / OpenAPI

Security

- Spring Security
- OAuth2
- JWT Authentication
- RBAC
- SSH Key Security

Databases

- PostgreSQL
- JSONB
- MySQL
- Oracle
- Advanced SQL

DevOps

- Linux
- Docker
- Jenkins
- Git
- Maven
- Nginx

Monitoring

- Prometheus
- Grafana
- ELK Stack
- Log Analysis
- Performance Monitoring

Frontend

- Thymeleaf
- Bootstrap
- jQuery
- AJAX
- HTML5
- CSS3

Engineering Practices

- System Architecture
- Technical Leadership
- Code Review
- Agile Delivery
- AI Assisted Development

Professional Experience

Enterprise Solution Architect / Senior Software Consultant

April 2024 – Present

Providing architecture, product engineering and modernization services for enterprise platforms built using Java, Spring Boot, Microservices and PHP technologies. Responsible for complete solution architecture, backend engineering, deployment, performance optimization, DevOps integration and technical mentoring.

Kalari ERP

Enterprise Sports Federation Platform Built for Indian Kalarippayattu Federation (IKF)

Designed and architected a complete enterprise platform for managing the operations of a national sports federation. The solution digitizes the entire organizational hierarchy from National Federation to State Associations, District Units, Clubs and Training Centers while supporting competitions, memberships, governance, approvals, certifications and analytics through a scalable Spring Boot ecosystem.

Key Contributions

- Architected the complete enterprise platform from the ground up.
- Designed scalable Spring Boot services supporting federation-wide operations.
- Developed configurable competition management and scoring engines.
- Built Kafka-driven asynchronous certificate generation with QR verification.
- Implemented hierarchical RBAC security using Spring Security, OAuth2 and JWT.
- Designed reporting infrastructure with optimized PostgreSQL JSONB queries.
- Integrated Gateway, centralized configuration and service discovery.
- Implemented CI/CD deployment pipeline and Linux production environment.
- Configured monitoring using Prometheus, Grafana and ELK.

Java 21

Spring Boot

Spring Security

Spring Cloud

Kafka

PostgreSQL

JWT

OAuth2

Hibernate

Linux

Jenkins

TaskBucket

Execution Intelligence & Project Performance Platform

Designed and developed an enterprise execution intelligence platform that connects planning, execution, costing, resource utilization and operational analytics into a single business intelligence ecosystem. Unlike conventional project management software, TaskBucket continuously measures execution performance using Earned Value Management (EVM) to provide real-time operational visibility.

Key Contributions

- Designed overall platform architecture and execution workflow.
- Developed Sprint-based execution model.
- Implemented Earned Value Management calculations.
- Designed executive KPI dashboards and analytical reports.
- Built resource utilization and productivity analytics.
- Implemented cost intelligence and schedule performance monitoring.
- Designed portfolio-level execution reporting.
- Integrated Kanban, Timeline and Graph-based monitoring.
- Established centralized business intelligence architecture.

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Java

Analytics

EVM

Reporting

Kanban

Timeline

PostgreSQL

Enterprise Rental ERP Modernization

Microservice Modernization Program

Leading the modernization of an enterprise ERP platform serving real estate, heavy machinery rental and construction businesses. The engagement focuses on gradually transforming a large PHP monolith into a modern Spring Boot microservice ecosystem without disrupting existing production operations.

Key Contributions

- Defined migration roadmap from monolith to microservices.
- Designed Gateway, Config Server and Service Discovery architecture.
- Implemented secure OAuth2/JWT authentication infrastructure.
- Developed REST APIs enabling gradual module migration.
- Integrated Kafka for asynchronous communication.
- Mentored development team on modern Spring Boot architecture.
- Improved deployment automation and operational monitoring.

Java

Spring Boot

Microservices

Kafka

Gateway

OAuth2

JWT

Docker

Linux

Senior Lead Developer (Java / PHP)

Docme.cloud | Manarul Huda Trust | TechnoAlliance.ae

April 2022 – March 2024

Led the design and delivery of enterprise platforms across healthcare, education, transportation and institutional management, combining backend engineering, workflow automation, REST integration and production deployment.

- Designed and delivered **SEED**, a developmental monitoring platform supporting medical professionals, special educators and rehabilitation centers in the UAE.
- Architected and enhanced **SAFETRI**, a fleet management solution integrating GPS, attendance, maintenance, fuel monitoring and operational analytics.

- Designed enterprise workflow modules including Project Management, Ticketing, Library Management, Timesheet and Institutional ERP extensions.
 - Integrated REST APIs, Kafka messaging, Linux deployment, Docker containers and automated operational workflows.
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Senior Software Developer

ASTGlobal | Muscat, Oman

November 2018 – January 2022

Designed and developed mission-critical ERP modules supporting real estate, heavy equipment rental, construction management and financial operations.

- Enterprise ERP development.
 - SQL optimization and reporting.
 - Workflow automation.
 - Requirement analysis.
 - Deployment and production support.
 - Customer-focused solution design.
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Web Developer

Riyam Computer Services

March 2016 – April 2018

- Developed legal, administration, employee service, reporting and customer service applications.
 - Migrated multiple legacy systems to modern web platforms.
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Software Developer

Origami Technologies

April 2012 – December 2015

- Developed project monitoring, education management and government information systems.
 - Delivered solutions for Kerala Water Authority, HLL Lifecare, KVVS Group and World Bank funded Jalanidhi projects.
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Earlier Career

Previous roles include

- IT Administrator — Sun Siyam Vilu Reef, Maldives
- IT Technician — Suntech Computers, Maldives
- Technical Assistant (Software Testing) — Information Kerala Mission

These early positions established strong foundations in enterprise infrastructure, system administration, software testing, customer support, production operations and large-scale government implementations.

Career Highlights

Enterprise Products

✓ 20+ enterprise software solutions delivered across ERP, project execution, sports federation and fleet management platforms. ✓ Architected 3 flagship enterprise products — Kalari ERP, TaskBucket and the Enterprise Rental ERP modernization.

Architecture Leadership

✓ Designed Spring Boot microservices, distributed systems and event-driven architecture using Kafka and Spring Cloud. ✓ Defined migration roadmaps taking large PHP monoliths to modern microservice ecosystems without production disruption.

Performance Engineering

✓ Optimized PostgreSQL using JSONB, advanced SQL, views and indexing for enterprise-scale reporting workloads. ✓ Built high-performance analytics and EVM-based execution reporting engines.

Production Engineering

✓ Designed CI/CD pipelines, Linux deployments and Docker environments with production observability. ✓ Configured monitoring using Prometheus, Grafana and the ELK stack.

Technical Leadership

✓ 15+ years leading engineering teams and mentoring developers across multiple organizations. ✓ Modernized legacy

Business Domains

✓ Production systems delivered across India, Oman, UAE and the Maldives — 4 countries, 8+ business domains. ✓ Sports

platforms and established scalable engineering practices.

Federation, ERP, Construction, Heavy Equipment Rental, Education, Healthcare, Fleet Management, Government and Project Execution Intelligence.

Certifications

Google Project Management Professional Certificate (Coursera)

Machine Learning through FOSS (ICFOSS)

Microsoft Certified Professional (MCSA / MCTS / MCP)

Education

Three-Year Diploma in Computer Engineering Department of Technical Education, Government of Kerala
2004

Higher Secondary Certificate 2001

SSLC 1999

Contact

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Currently interested in

Enterprise Solution Architecture

Backend Platform Engineering

Technical Leadership

Product Engineering

ERP Modernization

Spring Boot Microservices

Remote Consulting

Technology Partnerships