

Badri Paudel

Full Stack Software Engineer – Java / Spring Boot / Angular / AWS / Microservices / Kubernetes
Iowa, USA | Open to Relocation

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SUMMARY

Full Stack Software Engineer with 4+ years of experience designing, developing, and scaling highly available, fault-tolerant software applications in Agile/Scrum environments. Strong expertise in Java, Spring Boot, and REST API development, with hands-on frontend experience in Angular and React. Proven track record of end-to-end feature ownership—from system design to API development, CI/CD, production deployment, and observability—across distributed teams in Nepal, Europe, and the US. Experienced with event-driven architecture (Apache Kafka), AWS cloud infrastructure, and Kubernetes.

TECHNICAL SKILLS

Languages: Java (primary), TypeScript, JavaScript, Groovy, Python

Backend: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Spring AI, Hibernate, Grails, Node.js/Express.js, REST APIs, GraphQL, JSON

Frontend: Angular, React JS, TypeScript, JavaScript, RxJS, NgRx, Redux, HTML5, CSS

Distributed Systems & Messaging: Apache Kafka, RabbitMQ, Event-Driven Architecture, Microservices, CQRS, Circuit Breaker, Saga Pattern

Databases: PostgreSQL, MySQL, MS SQL Server (SQL), MongoDB, Redis, Elasticsearch, DynamoDB (NoSQL), Flyway

AWS: EC2, S3, ECS, RDS, MSK, ECR, DynamoDB, ElastiCache, CodePipeline, Secrets Manager, Cloud Map, ALB

Container & Orchestration: Kubernetes, Helm, OpenShift, Docker, ECS

CI/CD & Version Control: GitHub Actions, Atlassian Bamboo, Git, Bitbucket, AWS CodeCommit, Jira

Observability: Prometheus, Dynatrace, Grafana, Kibana, AWS CloudWatch, AWS X-Ray

Testing: JUnit 5, Mockito, Testcontainers, TDD, BDD, Apache JMeter, Locust, Veracode

Methodologies: Agile, Scrum, SDLC; System & High-Level Design, Design Patterns; Code Reviews & Mentoring

AI Tools & IDEs: Github Copilot, Gemini, ChatGPT, Claude Code, IntelliJ Idea, Postman, Docker Desktop

WORK EXPERIENCE

Software Engineer, Full Stack (Java, Spring Boot, Angular, Kubernetes) Dec 2023 – Jul 2025

Cotiviti / Infinite Computer Solutions, US (Remote)

US Healthcare

- Designed and developed scalable, highly available Java/Spring Boot microservices for a high-throughput fraud detection platform processing millions of US healthcare claims daily for enterprise clients including AETNA and Highmark, exposing REST APIs with JSON over HTTPS.
- Led end-to-end design and delivery of the Member Matching feature for Highmark — authored technical design docs and service contracts, drove story creation with clear Definition of Done and acceptance criteria in Jira, built RESTful Spring Boot APIs, and deployed independently to Kubernetes/OpenShift—achieving 95% client onboarding.
- Actively participated in all Scrum ceremonies—sprint planning, daily standups, retrospectives, and demos—communicating blockers to the Scrum Master and consistently completing sprint commitments across cross-functional distributed teams in the US and Nepal.
- Improved system performance by optimizing Drools rule evaluation (RETE algorithm for Rules Engine), implementing short-circuit logic, and eliminating redundant rule triggers—reducing per-request processing latency by 200ms across millions of daily healthcare transactions.
- Tuned JVM performance including heap memory and GC algorithms; led structured root cause analysis resolving two critical production incidents (StackOverflowError, OutOfMemoryError)—restoring availability across 5+ enterprise microservices with minimal downtime.
- Developed fault-tolerant, maintainable automated test suites achieving 90%+ coverage using JUnit 5, Mockito, and Testcontainers; maintained 95%+ security compliance via Veracode static analysis.
- Managed Bamboo CI/CD pipelines for containerized microservice deployments on Kubernetes (Helm, OpenShift); reduced integration test feedback loop by 50%+ by replacing manual MongoDB setup with embedded Flapdoodle.
- Monitored distributed system health using Prometheus, Dynatrace, and Kibana—analyzing throughput, latency, and cache performance; surfaced actionable insights to engineering teams and stakeholders.
- Authored Python automation scripts to generate dynamic insurance claim payloads and SQL/NoSQL mock data using batch processing, reducing load testing setup by 8 hours per sprint.
- Mentored 10 engineers on backend and frontend best practices, conducted code reviews enforcing coding standards, and drove iterative Agile releases.

Stack: Java, Spring Boot, Spring Security, Spring Data JPA, Hibernate, JUnit 5, Mockito, Testcontainers, Drools, MongoDB, Redis, MS SQL Server, Kubernetes, Helm, OpenShift, Prometheus, Dynatrace, Kibana, AWS, Bamboo, Jira, Veracode, Git

Software Engineer, Full Stack (Java / Javascript) Jul 2021 – Dec 2023

Threadcode Technologies Pvt. Ltd, Nepal

European SaaS – Event & Conference Management

- Designed, developed, and delivered end-to-end full-stack features on a scalable multi-tenant SaaS platform—owning REST API design, Angular and React JS UI modules, SQL schema design, and cross-environment CI/CD releases for Nordic enterprise clients including Event Logic and Big Travel.
- Built reactive Angular and React JS frontends using TypeScript, RxJS, NgRx, and Redux for client-side state management across multi-tenant dashboard views—improving UI responsiveness and translating design mockups and user stories into working applications.
- Re-architected high-traffic dashboard data pipeline by replacing expensive real-time aggregate queries with scheduled pre-aggregation, reducing p99 API response time from 4s to under 1s for high-traffic endpoints.
- Eliminated N+1 query bottlenecks by rewriting Hibernate ORM to optimized raw SQL—reducing API response latency by 2 seconds on critical data retrieval paths.
- Redesigned the Event Content Modal across Angular, React JS, Java, and Elasticsearch—consolidating content types into a single interface and improving content filtering speed by 70%.
- Implemented asynchronous, event-driven inter-service communication via RabbitMQ, decoupling services and improving scalability, fault tolerance, and deployment independence.
- Built and integrated object storage solution using AWS S3 for handling image uploads, retrieval, and lifecycle management with Java, Spring, and Angular.
- Delivered end-to-end multilingual (i18n) support across Spring Boot backend and Angular/React frontend with lazy-loaded translation bundles—reducing initial page load time from 3s to 1s.
- Designed and executed zero-downtime database schema migrations using Flyway, ensuring backward compatibility across all environments on every production release.
- Implemented Two-Factor Authentication (2FA) using Spring Security, Twilio, and PostgreSQL—hardening identity and access management for a multi-tenant enterprise platform.

Stack: Java, Groovy, Grails, Spring Boot, Spring Security, Hibernate, TypeScript, Angular, React JS, RxJS, NgRx, Redux, RabbitMQ, PostgreSQL, Elasticsearch, Redis, MongoDB, AWS, Docker, Flyway, Apache JMeter, Robot Framework, Git

PROJECTS

OpsFlow | Distributed Microservices Release Platform | Maharishi International University Feb 2026

- Architected a distributed, event-driven release management platform comprising 6 independent microservices (API Gateway, Auth, Release, Notification, Discussion, Chatbot) communicating asynchronously via Apache Kafka, with JWT-secured endpoints and an AI-powered assistant using Ollama (llama3.2).
- Provisioned complete AWS infrastructure from scratch — ECS, Aurora RDS, MSK, ECR, API Gateway, Cloud Map — with full observability via Grafana dashboards, Prometheus metrics, and AWS X-Ray distributed tracing.
- Built real-time notification system using Kafka event streaming, enabling asynchronous inter-service communication for release updates and discussion alerts across all services.

github.com/badripaudel77/OpsFlow

Stack: Java, Spring Boot, Apache Kafka, Ollama, Spring Security, JWT, MongoDB, Grafana, AWS ECS, RDS, MSK, ECR, CloudWatch, X-Ray, CodeCommit

EDUCATION

Maharishi International University USA

Master of Science in Computer Science Aug 2025 – Present

Pokhara University Nepal

B.Eng. in Information Technology — CGPA: 3.85/4.0 (Dean's List Award) Sep 2016 – Jun 2021

ONLINE PROFILES

Portfolio: badripaudel.com.np | **Stack Overflow:** stackoverflow.com/u/9898251 |

Tech Blog: medium.com/@badripaudel77 | **Tech YouTube:** youtube.com/@theelasticcode