

# Indap Pun Magar

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Senior Software Engineer – FinTech

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## Professional Summary

Senior Software Engineer with 6+ years of experience designing and maintaining Spring Boot-based microservices and event-driven systems in cloud-native environments. Specialized in Kafka, AWS ECS, and CI/CD automation using Jenkins. Experienced in large-scale migrations, security remediation, and acceptance test-driven development (ATDD). Partnered with platform and security teams to drive modernization efforts across 80+ backend services, enhancing maintainability, observability, and compliance. Strong collaboration and mentoring skills with a track record of improving system reliability and reducing deployment failure rates in FinTech ecosystems.

## Technical Skills

Languages: Java (8/17), Python

Frameworks: Spring Boot, Spring Security (OAuth2), Spring Data JPA, Hibernate

Messaging: Kafka

Databases: PostgreSQL, Oracle, MySQL, MongoDB

Cloud & DevOps: AWS (ECS, EC2, S3, CloudWatch, IAM), Docker, Jenkins

Testing: JUnit, Mockito, Cucumber, ATDD

Build & SCM: Maven, Gradle, Git, GitHub

Observability: Splunk, CloudWatch, Grafana, Prometheus, Whitesource

## Professional Experience

### Software Engineer → Senior Software Engineer | Capital One | May 2021 – Present

- Worked on Spring Boot-based microservices integrated with Kafka for internal data streaming, ensuring backward compatibility and stability during platform migrations.
- Led the Spring Boot upgrade from 1.5.x to 2.7.x for 80+ services, addressing dependency and transitive library vulnerabilities (reduced from over 2000 to fewer than 150) and ensuring compatibility with the latest framework versions.

- Contributed to the Kafka Streaming Data Platform (SDP) migration from v3 to v4, implementing required code changes, configuration updates, and testing strategies to align with new internal standards.
- Performed schema transformation and dataset registration using internal tools, carefully flattening complex legacy data structures to ensure compatibility with the new schema format and downstream processing.
- Wrote and maintained unit, functional, and acceptance tests using JUnit, Mockito, and Cucumber, following Acceptance Test–Driven Development (ATDD) practices to improve code reliability and regression detection.
- Enhanced CI/CD pipelines in Jenkins, configuring build and deployment stages, adding quality gates, and ensuring proper integration testing before deployment.
- Supported multiple stages of the release lifecycle: performing non-prod testing, validating results, and ensuring production deployments met internal readiness standards.
- Monitored application health and system logs using Splunk and AWS CloudWatch, identifying and resolving issues during and after releases.
- Collaborated with repository owner teams for PR reviews and release approvals, ensuring compliance with internal quality and security guidelines.
- Conducted knowledge transfer (KT) sessions to onboard team members, guiding them through SDP migration, testing, release verification, and dataset registration workflows.
- Used Excel-based trackers to record release progress, PR statuses, test results, and validation outcomes across multiple microservices.
- Maintained and enhanced a Python-based Gear deployment application integrated with Jenkins; after successful build and prechecks, Gear deployed the new Git tag to AWS ECS.
- Instrumented deployment failure diagnostics and surfaced actionable messages in the Jenkins console (e.g., health check failures, container exit codes, task placement/launch errors, and permission issues). This reduced blind retries and lowered rollout failure rates from ~9% to <5%.
- Added automatic CloudWatch log deep-links in Jenkins on failed deployments, enabling developers to jump directly to the service's logs and stack traces for faster triage.
- Implemented pre-deploy IAM validation to verify role existence and required permissions (e.g., RunTask, DescribeTasks, task start on EC2/ECS) before attempting deployment, preventing misconfigured releases from progressing.
- Worked with SREs to validate Route 53 regional failover between East and West AWS regions for ECS services, ensuring continuity and high availability.
- Maintained and enhanced the Gear application, which automated cloud deployments via Jenkins pipelines and AWS ECS, including IAM checks, CloudWatch log retrieval, and Docker image vulnerability scanning.
- Participated in end-to-end release testing and post-deployment verification, ensuring successful integration of new components into existing distributed systems.
- Applied Spring Security (OAuth2) for securing APIs and implementing access token validation for internal authentication.

- Collaborated with cross-functional teams to troubleshoot environment issues, test pipeline failures, and coordinate deployments across multiple regions and services.

#### **Java Full-Stack Developer | Charter Communication | Jan 2020 – May 2021**

- Designed and developed microservices and REST APIs using Spring Boot and Spring Cloud, integrating them with Angular 8 front-end components for full-stack delivery.
- Implemented Spring Data JPA for database persistence and optimized queries to improve response time across PostgreSQL and MongoDB.
- Developed and maintained Kafka producers and consumers for asynchronous message exchange between microservices.
- Automated builds and deployments using Jenkins pipelines and containerized services via Docker.
- Deployed and managed applications on AWS EC2 and S3, configuring IAM roles and policies for controlled access.
- Performed load, stress, and performance testing using JMeter, identifying performance bottlenecks and improving throughput.
- Implemented Spring Security with OAuth2.0 for secure authentication and authorization of REST endpoints.
- Collaborated in Agile/Scrum ceremonies, participating in design discussions, sprint reviews, and peer code reviews.
- Worked closely with QA and DevOps engineers to streamline release automation and resolve environment-related issues.

#### **Java Developer | Citi Group | Jan 2018 – Dec 2019**

- Developed backend modules using Spring MVC, Spring JDBC, and Hibernate, implementing DAO and service layers following clean architecture principles.
- Integrated Kafka for message streaming, including logic for failed message reprocessing based on offset tracking.
- Implemented RESTful and SOAP web services, ensuring reliable integration with internal and external systems.
- Used JUnit and Mockito for automated unit testing and integrated builds via Maven and Jenkins.
- Leveraged AWS SDK for S3 data storage and SNS notifications to integrate cloud-based communication within legacy systems.
- Implemented OAuth2-based authentication to secure REST APIs and manage access control.
- Performed debugging and production issue resolution using logs and monitoring tools, ensuring minimal downtime.

#### **Education**

Bachelor of Science in Computer Science, SouthWestern Oklahoma State University