NITIN PALLETI

SENIOR SOFTWARE ENGINEER | JAVA | SPRING BOOT | AWS | APPLIED AI

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PROFESSIONAL SUMMARY

Senior software engineer with 8+ years of experience delivering cloud-native, high-volume platforms across banking, payments, telecom, and digital commerce. Hands-on expertise in Java, Spring Boot, REST APIs, microservices, AWS ECS, event-driven integration, observability, and performance engineering. Drives changes from technical design and code review through automated testing, application and infrastructure deployment, production monitoring, and incident resolution. Designed and rolled out to production a human-supervised AI agent for GitHub Copilot, and uses internal AI skills, MCP tools, and Copilot to accelerate analysis, implementation, documentation, UAT preparation, and unit-test modernization while maintaining engineering controls.

TECHNICAL SKILLS

Backend: Java, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Spring Security, RESTful APIs, Microservices
Cloud & DevOps: AWS (ECS, S3, EMR, IAM, EC2, RDS), Docker, EAC, Terraform, Jenkins, CI/CD, Git, Maven
Messaging & Data: Apache Kafka, ActiveMQ, JMS, Oracle, PostgreSQL, Cassandra, Snowflake, SQL
Frontend: React, JavaScript, HTML5, CSS3, JSP; integration with REST APIs and microservices
Quality & Delivery: JUnit, JaCoCo, BlazeMeter, performance testing, CI/CD, production deployments, Split feature flags, Agile/Scrum
Observability: Datadog APM, Splunk, Dynatrace
Agentic AI & AI-Assisted Engineering: LLM agent design, skill routing and orchestration, MCP, GitHub Copilot and Claude agent skills, human-in-the-loop safety, LLM evals, Python (agent tooling), Internal AI Skills, UAT Data Conditioning, Unit-Test Modernization

PROFESSIONAL EXPERIENCE

MAS Global Consulting — Client: JPMorganChase (Offers) **Oct 2024 - Present**
Senior Software Engineer *Plano, TX (Hybrid)*

- Designed and evolved Java/Spring Boot microservices and REST APIs for the Offers team, supporting personalized offer decisioning and integrations across transactional, merchant, and behavioral data.
- Containerized and operated services on AWS ECS with Docker; integrated S3, EMR, IAM roles, security groups, and access policies to support secure, scalable data processing.
- Modernized infrastructure delivery by migrating from Terraform-based workflows to EAC and owned production deployments for application and infrastructure changes, including release validation and Split flag coordination.
- Developed offer-experimentation capabilities using Split feature flags, enabling phased rollouts, controlled exposure, validation, and rollback of new offers.
- Delivered Spring Boot and dependency upgrades and contributed to technical design and code reviews, implementing application and unit-test changes while maintaining compatibility, code quality, and release readiness.
- Used and enhanced internal AI skills, MCP tools, and Copilot to streamline codebase analysis, implementation, documentation, and unit-test updates, improving day-to-day engineering productivity while preserving review and quality controls.
- Created AI-assisted automated workflows for UAT data conditioning, producing repeatable datasets and reducing manual test preparation.
- Designed and executed BlazeMeter performance tests to validate throughput, expose bottlenecks, and assess release readiness under load.
- Onboarded services to Datadog APM and created monitors and alerts for service health; used Datadog, Splunk, and Dynatrace for logs, traces, performance analysis, and production triage.

Agentic Compass — human-supervised AI agent for GitHub Copilot (in production)

- Designed and built an understand-first AI agent that turns a Jira ticket into business context, evidence-backed analysis, a routed implementation plan, real test verification, and an auditable history, with every remote write gated by a human.

- Pivoted from a generic Jira-to-code agent to an orchestrator that deterministically routes work across 19 routes to existing specialist AI skills (all 61 referenced skills resolved), labeling every claim VERIFIED / INFERRED / UNKNOWN with citations.
- Built it in standard-library Python and plain JavaScript (no dependencies): 7 single-responsibility modules, resumable per-ticket workspaces with an append-only audit log, a read-only dashboard with secret redaction, 73 unit tests, and two-layer evals.
- Enforced guardrails and governance: human approval for every remote write; never deploys, merges, flips feature flags, or changes cloud resources; least-privilege skill routing; an append-only audit trail; and scanner-confirmed security closure.
- Validated on 8 real tickets across 5 services, surfacing wrong ticket assumptions, overlapping PRs, diverged branches, and cosmetic security fixes before coding; passed senior-lead reviews and UAT, then rolled out to production for team use.
- Delivered changes through the agent that passed review and UAT before production release, including a feature-flagged A/B test change with 357/357 unit and 24/24 component tests passing and 100% new-line and branch coverage (JaCoCo).

BNY **Aug 2024 - Sep 2024**

Java Software Engineer *Frisco, TX (Remote)*

- Enhanced Java and Spring Boot services supporting data-ingestion, validation, and processing workflows for the Bridgewater platform.
- Implemented REST APIs for internal-system integration and developed relational data-access components using JDBC and Spring Data.
- Analyzed existing code, delivered targeted enhancements, optimized queries, and resolved defects within Agile sprint timelines.

JPMorgan Chase & Co. **Feb 2024 - Jul 2024**

Java Software Engineer *Plano, TX (Hybrid)*

- Developed Java and Spring Boot microservices supporting real-time payment workflows, applying multithreading, exception handling, collections, and other core Java capabilities.
- Implemented data-access objects and entities using Hibernate/JPA with Spring MVC, Spring Transactions, and Spring Security.
- Built RESTful services for CRUD operations and JSON-based integration with front-end and orchestration components.
- Implemented JMS messaging to exchange post-execution notifications with the orchestration engine.
- Deployed Dockerized microservices on AWS using EC2, S3, RDS, ELB, and EBS infrastructure.

Copart **May 2022 - Jan 2024**

Java Full Stack Engineer *Dallas, TX (Hybrid)*

- Designed and developed enterprise applications using Java, Spring Boot, and microservices architecture for auction, inventory, and partner-integration platforms.
- Built backend services and REST APIs and implemented event-driven messaging using Apache Kafka and ActiveMQ.
- Developed reusable React single-page application components using JavaScript, HTML5, and CSS3 and integrated them with backend REST APIs to support auction and inventory workflows.
- Containerized applications with Docker and deployed services on AWS infrastructure; worked with Oracle and Cassandra across relational and NoSQL use cases.
- Collaborated with cross-functional teams throughout the SDLC using Agile delivery practices.

Sunrise, Opfikon, Switzerland **Aug 2017 - Mar 2021**

Java/J2EE Developer *Bengaluru, India (On-site)*

- Designed and developed Java/J2EE enterprise applications using Spring, Hibernate, and RESTful web services for telecom provisioning and service-activation platforms.
- Developed backend services and database-access layers using JPA and Hibernate.
- Built user-interface components with JSP, JavaScript, and HTML and integrated messaging workflows using JMS and Apache Kafka.
- Participated in Agile development, testing, deployment, and production-support activities.