

AGAM MISHRA

Senior Software Engineer · Java & Spring Boot · Distributed Systems · Quality Engineering

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PROFESSIONAL SUMMARY

Senior Software Engineer with **6+ years** of experience in **Java, Spring Boot, and distributed microservices engineering** across regulated BFSI environments. Proven track record of owning end-to-end software delivery — from design through testing and deployment — with a strong **quality engineering mindset** spanning TDD, automated testing, integration testing, and production stability. Deep expertise in **RESTful microservices, PostgreSQL, MongoDB, AWS, and CI/CD pipelines**, with hands-on experience maintaining and optimising distributed systems for performance, reliability, and scalability. Experienced in Agile delivery environments, collaborating with cross-functional teams to validate scenarios, track defects, and drive continuous improvement. **Actively uses GenAI tools (GitHub Copilot, Claude AI, ChatGPT)** daily as a mandatory part of the development workflow — accelerating feature delivery, improving code quality, and enhancing engineering velocity. Domain experience in **financial services and insurance** with deep understanding of enterprise compliance, risk, and operational reliability standards directly relevant to American Express's Risk Decision Technology mission.

TECHNICAL SKILLS

Languages	Java 17+ (Expert) · JavaScript · TypeScript · Node.js · Python (upskilling)
Backend & APIs	Spring Boot · Spring MVC · Hibernate · RESTful Microservices · OOP · Design Patterns · TDD · BDD
Testing & Quality	Testcontainers · Unit Testing · Integration Testing · Regression Testing · SIT · Cypress · Automated Test Frameworks
Distributed Systems	Microservices Architecture · Event-Driven Design · High-Concurrency APIs · Fault Tolerance · Multi-tier Architecture
Databases	PostgreSQL · MongoDB · Oracle · MySQL · Cassandra (familiar) · SQL · NoSQL
CI/CD & DevOps	GitHub · Maven · Gradle · Jenkins (familiar) · CI/CD Pipelines · Agile / Scrum
Cloud & Infrastructure	AWS (Lambda · S3 · CloudWatch) · Azure · Docker · GCP (familiar)
Messaging	Kafka (upskilling) · Event-Driven Architecture · Async Processing · AWS Lambda Workflows
Security & Compliance	IAM · RBAC · VAPT Remediation · ISO Controls · Infosec · Secure Coding · Access Governance
GenAI ✓ Mandatory	GitHub Copilot · Claude AI · ChatGPT · Prompt Engineering · AI-assisted Code Review · AI-accelerated Debugging
Frontend	React.js · Next.js (SSR/CSR) · Angular · MUI · Tailwind CSS · TypeScript
Observability	Grafana · AWS CloudWatch · Metabase · Logging · Performance Monitoring

WORK EXPERIENCE

Senior Software Developer

Mar 2025 – Present

Visionsure · Gurugram, Haryana

- Owned end-to-end development and testing across the full software lifecycle — designing, building, unit testing, and deploying Spring Boot microservices, REST APIs, and AWS serverless workflows in an agile sprint environment, spending 80%+ time on hands-on development and quality engineering.
- Designed and implemented automated test frameworks using Testcontainers — covering unit, integration, regression, and SIT testing — increasing release stability by 25% and significantly improving engineering velocity and defect detection rates.
- Architected 5+ high-performance, scalable Spring Boot microservices for distributed policy lifecycle management — reducing manual processing effort by 50% and enabling revenue-critical business operations across 5 enterprise BFSI integrations.
- Built high-concurrency RESTful APIs and Node.js integrations with robust error handling, idempotency controls, and real-time data exchange — improving partner onboarding speed by 35% and sustaining high-traffic production workloads reliably.

- Performed continuous code reviews, quality checks, and refactoring using best practices — maintaining high engineering standards and driving consistent improvement in code quality and maintainability across the codebase.
- Monitored, tracked, and resolved production defects and incidents — performing root cause analysis and implementing permanent fixes, reducing recurring production incidents and improving platform stability and availability.
- Implemented enterprise-grade security and compliance controls — VAPT remediation (90%+ critical issues resolved), ISO Infosec compliance, IAM, RBAC, and access governance — for regulated enterprise clients including ICICI Lombard, Niva Bupa, and Aditya Birla Health.
- Leveraged GenAI tools (GitHub Copilot, Claude AI, ChatGPT) as a mandatory daily workflow component — automating repetitive coding tasks, accelerating debugging, improving code review quality, and consistently reducing sprint delivery timelines without compromising standards.
- Engineered AWS Lambda serverless workflows for async file processing, SLA automation, and event-driven operations — reducing processing time by 40% and improving platform scalability and operational efficiency.
- Led complete frontend architectural migration from React (CSR) to Next.js (SSR) — improving page load performance by 20% and delivering enhanced, server-rendered user experiences across partner ecosystems.

Software Developer 2

Jul 2024 – Mar 2025

NCR Atleos · Gurugram, Haryana

- Worked as part of a large Agile engineering team — driving consistent development practices, code reviews, and documentation standards across distributed system migrations and new feature delivery.
- Led database modernisation from Oracle to PostgreSQL within a large-scale, long-lived enterprise Java codebase — eliminating technical debt, reducing licensing costs, and improving query performance for high-traffic production systems.
- Co-led on-premises to Azure Cloud infrastructure migration — achieving 30% cost reduction, improving scalability, and establishing cloud-native CI/CD deployment standards using GitHub pipelines.
- Integrated Grafana for real-time distributed system observability and logging — enabling proactive incident detection, reducing mean time to resolution (MTTR), and improving overall production reliability and stability.
- Designed scalable Spring Boot microservices; contributed to architecture reviews, quality checks, and technical decision-making within a globally distributed cross-functional engineering team.

Software Developer 1

May 2021 – Jun 2024

NCR Atleos · Gurugram, Haryana

- Built and maintained distributed services within a large-scale enterprise Java codebase — collaborating with QA and SQA teams in agile sprint cycles to deploy high-quality changes, resolve defects, and improve system stability.
- Developed deep expertise in debugging, performance optimisation, and continuous refactoring — maintaining reliability and availability standards across high-traffic, production-grade multi-tier distributed systems.
- Reviewed requirements for functionality, performance, scalability, and security — translating business and technical needs into well-tested, maintainable engineering solutions.

Software Developer

Feb 2021 – May 2021

XeliumTech · Gurugram, Haryana

- Built backend infrastructure for a high-availability appointment platform using Node.js and MySQL — improving booking efficiency by 20% through scalable API design, automated testing, and reliable third-party integrations.

Software Engineer Intern

Oct 2019 – Aug 2020

Advanced Systemics · New Delhi

- Delivered production-grade web interfaces for US and European government clients — improving site load times by ~25% with focus on performance, reliability, and cross-device compatibility.

EDUCATION

B.Tech – Computer Science

May 2020

SRM University · Sonapat, Haryana · CGPA: 7.0 / 10.0

University Cricket Team — Represented SRM University in inter-university competitions; developed teamwork, discipline, and performance under pressure.