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Top Skills

JUnit

Mockito

Microservices

Certifications

Programming for Everybody (Getting Started with Python)

Complete Web Development From Absolute Basics

AI Coder: Complete Claude Code & Coding Agents

Kartik Sharma

Delivering high-performance backend solutions | Senior Software Engineer at Sense | Expertise in Java, Spring Boot, Kafka & cloud technologies

Bengaluru, Karnataka, India

Summary

I'm passionate about building resilient backend systems that truly make a difference in how we interact with technology. My journey at Sense has been nothing short of transformative, from starting as an intern to now leading projects as a senior software engineer. Each step has sharpened my skills and deepened my love for tackling complex challenges in the world of distributed systems. One of my proudest accomplishments was developing core workflow execution capabilities for our automation platform—this system now manages over 1 billion workflow events each day. It's incredible to think about the impact this has on our users and how it enhances their experience. I thrive on creating high-performance solutions that not only meet but exceed expectations. During my time at Sense, I've had the opportunity to dive deep into technologies like Spring Boot and Kafka while also embracing cloud solutions with AWS. I've worked extensively on improving observability and reliability across our microservices architecture—efforts that have led to significant operational excellence within our team. Outside of work, I enjoy exploring new tech trends and contributing to open-source projects whenever I can. This not only keeps me updated but also allows me to connect with like-minded individuals who share my enthusiasm for innovation in software engineering. I'm always looking to grow my personal and professional network. Feel free to connect via LinkedIn or contact me directly at kartiks2001@gmail.com. Skills: Spring Boot | Kafka | AWS | Microservices | Distributed Systems | Platform Engineering | Observability

Experience

Sense

3 years 8 months

Senior Software Engineer | Distributed Systems | Spring Boot, Kafka & AWS

April 2025 - Present (1 year 5 months)

Bengaluru

As a Senior Software Engineer at Sense, I build resilient, high-scale backend systems powering a distributed workflow automation platform. My work spans distributed systems, platform engineering, developer tooling, AI integrations, and production reliability, with a strong focus on scalability and operational excellence.

Highlights:

Developed core workflow execution capabilities for the Node Transition Service, supporting a platform that processes a peak of 1B+ workflow events per day.

Collaborated for an organization-wide migration of 20+ Spring Boot microservices to Spring Boot 3.x for SOC2 compliance, modernizing core dependencies including gRPC, Apache Camel, and AWS SQS while ensuring minimal production impact.

Re-architected a high-throughput webhook processing engine, reducing EC2 infrastructure by 85% while eliminating processing bottlenecks.

Built a 3-channel Campaign Service with intelligent volume control, powering 1,000+ live customer campaigns.

Designed and validated a Model Context Protocol (MCP) implementation, enabling our Backend-for-Frontend (BFF) to function as an MCP server exposing 5 AI tools.

Built advanced JVM observability tooling covering heap, garbage collection, threads, and OS-level resources, enabling faster root-cause analysis and early detection of issues such as file descriptor leaks before customer impact.

Regularly serve as a primary responder during production incidents, driving rapid debugging, root cause analysis, and long-term reliability improvements.

Software Engineer | Java | Spring Boot | Kafka | AWS | Microservices
July 2023 - April 2025 (1 year 10 months)

During my time as a Software Engineer at Sense, I focused on building the backend foundations that power a high-scale workflow automation platform. My work centered around distributed systems, platform engineering, observability, and developer tooling, with an emphasis on improving reliability and scalability.

Key Highlights:

Built a no-code integration platform using Apache Camel, enabling seamless connectivity with 15+ third-party services through configurable workflows. Designed and implemented a Kafka-to-SQS asynchronous processing architecture, eliminating consumer rebalancing caused by long-running message processing and significantly improving the stability of event-driven workloads.

Led the implementation of platform-wide monitoring and alerting using Grafana and Prometheus, delivering 45+ dashboards and visualizations, including deep JMX-based JVM observability across 30+ runtime metrics for faster production troubleshooting.

Led the transition to version-controlled database migrations by introducing Flyway into 10+ Java-based microservices. Authored the integration strategy and conducted team-wide knowledge-sharing sessions to standardize schema deployment.

Designed and developed a Cross-Platform Email Migration tool, enabling seamless synchronization of assets (links, images, and dynamic variables) between legacy and next-gen engines. This increased platform adoption and reduced manual user effort by roughly 95%.

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Collaborated with DevOps on high-stakes infrastructure tasks, including Kafka cluster upgrades.

Guided new hires and junior engineers, conducting technical deep dives and on-call readiness training to improve team-wide incident response capabilities.

Software Engineer Intern | Java Development, Spring Boot, AWS, gRPC, JUnit

January 2023 - June 2023 (6 months)

Bengaluru

As a Software Engineer Intern at Sense, the opportunity to build production backend features was both challenging and rewarding.

One of the standout projects involved designing the Domain Configuration feature using AWS S3 and CloudFront. This initiative not only strengthened customer branding but also led to a remarkable 15% increase in site traffic due to enhanced SEO capabilities.

Additionally, I developed gRPC APIs that enabled low-latency communication across five microservices. This significantly boosted service-to-service efficiency within our platform.

Throughout my internship, I focused on maintaining high code quality by implementing comprehensive unit tests using JUnit and Mockito—achieving a solid 90% unit test coverage.

Collaborating with various teams allowed me to gain valuable insights into how backend systems can enhance customer experiences while honing my skills in cloud technologies.

Competencies: Backend Development (Java & Spring Boot), AWS Cloud Solutions (S3 & CloudFront), Microservices Communication (gRPC), Unit Testing (JUnit & Mockito).

Education

PES University

Bachelor of Technology - BTech, Computer Science · (2019 - 2023)

Whitefield Global School

Class 12 · (2018 - 2019)

Whitefield Global School

Class 10 · (2016 - 2017)