

Naman Gupta

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SUMMARY

Lead Software Engineer with **11+ years of experience** and **8+ years in FinTech**, delivering scalable and secure enterprise solutions across retail, telecom, healthcare, and financial domains. Skilled in **Java, Spring, Kafka, Microservices, and AWS**, with a proven track record of modernizing systems, improving performance, and mentoring teams. Passionate about leveraging **AI and Cloud** to solve complex challenges and drive innovation.

CERTIFICATIONS

AWS Certified Cloud Practitioner | Amazon Web Services

2024

EDUCATION

Master of Technology | Birla Institute of Technology and Science

Minor in Software Systems, 8.25, 2016

Bachelor of Technology | Sri Aurobindo Institute of Technology

Minor in Computer Science Engineering, 73.4%, 2013

SKILLS

Programming Languages: Java (J2SE), REST Web Services, Gradle, Bash

Frameworks: Spring MVC, Spring JPA, Spring WebFlux, Spring Integration, Spring Batch, Hibernate

Databases & MQs: SQL, Oracle 11g, MySQL, Druid, Kafka, MongoDB (With Spring Data)

Architecture & Software Methodology: Monolith, Micro-service, Agile, Spiral, Waterfall

Cloud Technology: Amazon Web Services (AWS)

Unit Testing Framework: Junit, Mockito, PowerMock

IDEs: Eclipse, IntelliJ, SQL Developer

Other known Tools: Docker, Grafana, Prometheus, Sockeye, PagerDuty, NetCool, FIX Protocol, Jmeter

Code Build & Quality Tools: Sonar, Jenkin, Bamboo, Nolio

EXPERIENCE

Manager, Software Engineering | Mastercard

November 2024 - Present, Pune, India

- Contribute to a large-scale payment authentication program, working on a key component within the 3DS flow — focusing on enhancement, stability, and reliability.
- Translate product requirements into scalable designs (HLD/LLD) and drive architectural decisions for owned components.
- Own end-to-end feature delivery for assigned modules, ensuring system reliability and cross-team integration alignment.
- Mentor engineers through code reviews and design guidance, raising team technical standards.
- Champion AI adoption within the team — conducting POCs on AI agents, RAG pipelines, LoRA fine-tuning, and agent-to-agent (A2A) interactions.
- Foster a collaborative, high-trust team environment focused on engineering excellence.

Technical lead | Morgan Stanley

February 2022 - November 2024, Bangalore, India

- Delivered modernized and scalable solutions as part of the FX Incubation team supporting trading systems.
- Built an API exposure layer for trading, creating a translation layer with FIX protocol to let non-financial institutions trade without deep domain knowledge.
- Scaled the API platform from 100 ? 1000+ requests/sec using Java 8, Spring Boot 3, MongoDB.
- Designed a reconciliation system to capture trade data streams, integrate with SOAP/REST APIs, and enable partner case management with JOSE.
- Delivered solutions with Java 17, Spring Boot 3, Kafka Events, and internal cloud deployments for scale and reliability.
- Automated CI/CD pipelines and streamlined certificate renewals, reducing operational overhead.
- Guided engineers through design reviews and mentoring, ensuring quality delivery across projects.

Senior Software Engineer | Barclays

October 2018 - February 2022, Pune, India

- Contributed as part of Prime Services, working on two core applications focused on reporting and secure file transfers.
- Designed and developed new features and enhancements for a long-standing application (10+ years), ensuring continued stability and relevance.
- Successfully migrated the application to a modernized architecture, achieving a 30% performance improvement and 20% cost reduction.
- Played a key role in establishing development best practices, including setting up CI/CD pipelines, code review processes, and design standards.
- Proven ability to both maintain and support legacy applications and deliver new projects from scratch, including a Database-Based Reporting solution and an Application Control Center.
- Led modernization initiatives, conducting multiple POCs to evaluate and implement innovative solutions.
- Collaborated in architecture and design discussions to enhance system maintainability and ecosystem alignment.

Senior Engineer | Netpulse Services Pvt. Ltd

April 2018 - September 2018, Pune, India

- Worked with Elasticcare, a subsidiary of Netpulse, on backend applications integrated with medical devices (LifePath-C) for ECG monitoring.
- Collaborated with business stakeholders to translate healthcare requirements into scalable technical solutions.
- Designed and implemented APIs for a remote patient monitoring platform, enabling secure and reliable health data processing.
- Developed and tested the application to scale from a few to thousands of customers, ensuring high availability and performance.
- Established efficient build processes and deployment strategies, enabling seamless and reliable application updates.
- Implemented monitoring infrastructure to ensure system stability, reliability, and optimal performance.

Senior Software Engineer | Altimetrik India Pvt. Ltd

September 2017 - March 2018, Pune, India

- Worked with Mastercard as a client, contributing to the launch of a nationwide digital wallet project.
- Designed and developed backend services exposing secure mobile APIs, ensuring compliance with stringent security requirements.
- Built the application in a multi-tenancy model with microservice architecture to support multiple customers and large-scale adoption.
- Established coding standards and review processes, improving code quality and team efficiency.
- Collaborated in requirement elaboration sessions and delivered product demonstrations to stakeholders.

Senior Software Engineer | Shiksha Infotech Pvt. Ltd

September 2016 - August 2017, Pune, India

- Worked with British Telecom as a client, contributing to a network performance management systems project.
- Developed solutions to monitor and collect data from diverse network devices using SNMP walks and API integrations.
- Built and maintained data pipelines ingesting data from applications into Kafka and time-series databases for efficient processing and analysis.
- Implemented observability features to enhance monitoring, reliability, and performance of data pipelines and applications.

System Analyst | Skillnet Solutions India Pvt. Ltd

December 2014 - August 2016, Indore, India

- Developed and delivered proof-of-concepts (POCs) for product customization in the retail domain.
- Designed and implemented PCI-compliant payment integrations across multiple Xstore projects, ensuring secure and seamless transactions.
- Translated business requirements into technical solutions for PCI integration, order management, and inventory management systems.- Customized Micros/Oracle X-Store POS solutions for various clients, including core modules such as Sales, Shipping & Receiving, and Payments.
- Authored technical documentation to define system solutions and guide development teams.
- Built a pluggable, PCI-compliant payment integration solution for X-Store, reducing delivery timelines by 40%.

PROJECTS

File Intelligent Service Hub (FISH)

- Maintained and enhanced a configuration-based file transfer application supporting SFTP, SMTP, Office 365, and SMB protocols.
- Expanded application functionality by implementing SMB protocol for Windows-based file transfers.
- Modernized the application architecture using new frameworks, improving efficiency and scalability. (Successfully migrated the application to the in-house cloud for performance efficiency and cost optimization.)

IOT solution for ECG device

- Developed mobile application APIs for ingesting IoT device data into the ecosystem.
- Implemented ETL (Extract, Transform, Load) jobs to process raw data and generate insightful metrics for user dashboards.
- Troubleshooted and resolved instability issues within the Kafka cluster, ensuring application scalability and reliable data ingestion.

Hedger Recommendation Tool for FX

- Automated data pipeline and hedging metric calculations for the Stats team, eliminating manual processes in Excel and improving efficiency.
- Developed an interactive dashboard for the Stats team and client, providing real-time insights into investments and hedging metrics. (Resulted in a 2-5% increase in trades)
- Owned project lifecycle from requirement gathering and design to successful implementation and delivery.

REST API for Placing Trades

- Developed REST API tool for clients to request quotes and place orders, simplifying order placement compared to complex FIX message protocol. (Increased client adoption and trades)

Owned project phases:

- POC development
 - Disaster recovery strategy implementation
 - Performance testing and enhancements
 - New functionality implementation
- Contributed to significant trade volume increase by enabling new clients to integrate our API with their UIs.