

Akshay Kumar Gupta

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Professional Summary

Software Engineer III with **8+ years** of experience designing and building enterprise-scale backend systems using **Java, Spring Boot, Microservices, PostgreSQL, Kafka, and AWS**. Proven experience delivering secure Open Banking solutions based on the **Financial Data Exchange (FDX)** standard and building **AI-powered engineering platforms** that improve developer productivity. Strong background in distributed systems, API design, cloud-native applications, and technical leadership across financial services, healthcare, and enterprise consulting.

Experience

Software Engineer III

JPMorgan Chase & Co. April 2025 - Present

- Leading engineering execution for the India team, collaborating with Product Owners, Project Leads, and cross-functional engineering teams to deliver enterprise backend and AI-driven engineering solutions.
- Developing enterprise backend services for JPMorgan Chase's **Open Banking** platform using **Java, Spring Boot, PostgreSQL, Kafka, and AWS**, designing **FDX Export APIs**, consent management services, and event-driven microservices.
- Developed **DevKit**, an internal AI-powered Project Development Lifecycle (PDLC) platform using **LLMs, AI agents**, and **MCP** integrations to automate software engineering workflows.
- Designed AI context engineering capabilities that consolidate repositories, Confluence, Jira, coding standards, and architectural guidelines to improve AI response quality, reduce token utilization, and ensure AI-generated code adheres to enterprise engineering standards.

Software Engineer II

McKinsey & Company, August 2022 - December 2024

- Built enterprise applications across **healthcare, pharmaceutical, fintech, and AI** domains using **Java, Spring Boot, Python, Node.js, React.js, Kafka, Redis, and AWS**.
- Led a **10+ member backend team** for a global pharmaceutical client, delivering scalable backend solutions.
- Developed **GenAI applications** using **OpenAI, LangChain, Prompt Engineering, Vector Databases, and RAG** for enterprise use cases.
- Built **ELK Stack** solutions and **Kibana plugins** to enhance observability and operational monitoring.
- Designed **microservices** and **REST APIs** with a focus on scalability, reliability, and performance.

Software Development Consultant I

Lumen Technologies, September 2020 - August 2022

- Developed backend services and microservices for **Lumen's Cloud Application Manager (CAM)** using **Java, Python, MongoDB, and AngularJS**.
- Built REST APIs and cloud management features by integrating with **AWS, Azure, and Google Cloud Platform (GCP)** services.

- Worked closely with product and engineering teams to develop new features, fix production issues, and improve application performance.

Software Engineer

Snapwiz Edutech India Pvt. Ltd., March 2018 - September 2020

- Developed backend features for the **Edulastic** learning platform using **Node.js, Java, MongoDB, and MySQL**.
- Built frontend features using **JavaScript (ES6), jQuery, HTML5, and CSS3** to improve the learning experience.
- Owned features from implementation through testing, deployment, and production support while working with product and QA teams.

Technical Skills

Programming Languages:

Java (J2SE/J2EE), Python, JavaScript, Node.js, SQL, HTML5, CSS, Tailwind CSS

AI & GenAI:

LLM Applications, AI Agents, Agentic AI, MCP (Model Context Protocol), Prompt Engineering, RAG, Vector Databases, GitHub Copilot

Backend & Frameworks:

Spring Boot, Hibernate, Express.js, Next.js, React.js, Maven, Kafka, REST APIs, Microservices

Databases:

PostgreSQL, MySQL, MongoDB, Redis, Pinecone

Cloud & DevOps:

AWS, Git, Docker, Bitbucket

Developer Tools:

IntelliJ IDEA, VS Code, PyCharm, Jira, Confluence

Operating Systems:

Linux, macOS, Windows

Projects

DevKit – AI-Powered Project Development Lifecycle (PDLC) Platform

- Built an internal AI-powered platform to accelerate the **Project Development Lifecycle (PDLC)** through intelligent automation and contextual knowledge retrieval.
- Engineered a **project context engine** integrating repositories, Jira, Confluence, and Bitbucket (via **MCP**) to improve AI accuracy, reduce token utilization, and enforce enterprise coding standards.
- Automated engineering workflows including requirement analysis, implementation planning, documentation, pull request reviews, and onboarding, reducing development effort by **~60%** across a **20-member engineering team**.

Lumen's Cloud Application Manager(CAM)

- Orchestrated and automated infrastructure, application, and service delivery across various cloud providers, including AWS, GCP, Azure, and Lumen Cloud.
- Improved deployment efficiency by 30% through automation.

Edulastic - Learning Management System

- Contributed to a robust Learning Management System serving over 10 million users.
- Delivered new features, resolved issues, and managed bugs, utilizing NodeJS, MongoDB, Firebase, and JavaScript.

Education

Educational Qualification	Year	Board/Institution	CGPA*/%
M.Tech (Computer Science)	2017	DIT University, Dehradun	7.89 CGPA (78.9%)
B.Tech (Information Technology)	2015	Dehradun Institute of Technology, Dehradun	69.48%
12 th	2009	Aims Academy, Uttar Pradesh	63.40%
10 th	2007	Aims Academy, Uttar Pradesh	66.83%

Certification and Achievements

- Training in AWS Services
- Course in Python (<https://www.udemy.com/certificate/UC-9f537a83-40f4-48d7-8902-1953de99b2de/>)
- AWS Practitioner Training
- Course in GenAI, Java (J2SE and J2EE)
- Received Spot Award from company for delivering the quality software on time.