

Vivek Mehta

Senior Back-End Developer | Core Java & Multithreading | Investment Banking Technology

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PROFESSIONAL SUMMARY

I am a Senior Back-End Developer with 15+ years of experience building production-grade backend systems in regulated financial environments — and increasingly, in AI-powered application development. Core Java is the foundation of my career, but over the past year I have been building hands-on with GenAI tooling: at GDG London's AI DevCamp I designed and built AI Model Advisor, a four-agent pipeline application using Gemini 2.5 Flash with native search grounding, deployed on Cloud Run via Docker. That project gave me direct, practical experience with LLM-based architecture, agentic workflows, and the guardrails that make AI systems reliable in production. I tested my learning against Anthropic's Claude Architect – Foundations exam and earned a certification. My background in financial services has trained me to care deeply about engineering rigor — TDD, CI/CD, observability, secure coding — and I bring those same standards to data and AI product work. Mentoring and knowledge sharing are things I have always done seriously, not as an afterthought.

CORE TECHNICAL SKILLS

- **Languages:** Core Java 8–17, Multithreading, Concurrency, Scala, Python
- **Frameworks:** Spring Boot, Spring Framework, REST APIs, Microservices, Distributed Systems
- **Cloud & Platforms:** AWS, GCP Hybrid Cloud, OpenShift Kubernetes, Docker
- **DevOps & CI/CD:** GitHub Actions, TeamCity, Helm, Maven, Gradle
- **Data & Messaging:** Apache Spark, Hadoop, Kafka, ETL Processing, JGroups
- **Databases:** Oracle DB, SQL Server, PostgreSQL, MongoDB
- **Testing:** TDD, JUnit, Mockito, Cucumber, Serenity
- **Practices:** Secure Coding, AppScan Remediation, Agile, Scrum, Peer Reviews
- **Leadership:** Solution Design, Technical Decision-Making, Engineering Mentorship, Cross-Team Collaboration

PROJECTS

AI Model Advisor | Creator & Senior Engineer

May 2026

Spring Boot 3.4 · Java 17 · Gemini 2.5 Flash · Docker · Cloud Run · Repo: github.com/vivekpmehtha/ai-model-advisor

- Designed and built a four-agent pipeline application (Intake → Search → Analysis → Recommendation) using Spring Boot 3.4 / Java 17 and Gemini 2.5 Flash with native search grounding.
- Implemented agentic workflow orchestration with practical reliability guardrails — the same discipline I apply to financial systems, now applied to LLM-based product architecture.
- Deployable as a monolith or as distributed Cloud Run services via Docker; demonstrates end-to-end GenAI product delivery from idea to production-ready deployment.

KEY ACHIEVEMENTS

- **Resilient Engineering:** Zero deployment defects across 2+ years of continuous tier-1 financial platform releases through meticulous planning and secure coding.
- **Performance Optimization:** 75% reduction in production deployment time achieved through optimized containerized artifact packaging via Gradle Jib.
- **Process Automation:** Collaborated on a distributed framework automation setup, slashing manual QA workloads by 80%.
- **Business Value:** Heightened critical data match visibility by 10–20% via advanced concurrent programming practices in Core Java.

PROFESSIONAL EXPERIENCE

Senior Back-End Developer / Tech Lead | TCS — Client: **Deutsche Bank**

Jan 2023 – Present

ESG Data Platform — Sustainable Finance & Regulatory Reporting

- Contributed as a lead developer on a high-volume ESG data platform, enriching counterparty profiles with carbon emissions, taxonomy alignment, and biodiversity data to drive regulatory reporting and sustainable finance capabilities.

- Built and deployed Spring Boot microservices on OpenShift Kubernetes across DEV/UAT/PROD, embedding TDD, thorough code review cycles, and secure coding practices throughout the delivery process.
- Developed a concurrency-driven Java microservice that improved ESG data match rates by 10–20%, successfully reducing the manual classification effort required for green deals.
- Managed the full delivery lifecycle alongside an 11-person cross-functional team—handling planning, client communications, release governance, and production deployments—to achieve zero production defects over two continuous years.
- Resolved a persistent Spark deployment bottleneck that had caused 50% error rates and 4-hour run times, reducing errors to 1% and runtime to 1 hour to save approximately 45 hours per year.
- Executed infrastructure optimization by contributing to two platform migrations (on-prem OpenShift namespace consolidation and a GCP hybrid cloud move) and transitioning CI/CD pipelines from TeamCity/Helm to GitHub Actions, slashing deployment times by 75%.
- Fostered a collaborative engineering culture by making knowledge sharing a genuine team habit through regular code reviews, pair programming, and structured mentoring for junior and mid-level developers.

Senior Back-End Developer | TCS — Client: **Deutsche Bank**

May 2020 – Dec 2022

Standard Benchmarking Tool — Financial Instrument Benchmark Management

- Architected multi-step regulatory submission workflows with full version control using Spring Boot REST APIs and custom Oracle DB schemas, while maintaining strict TDD discipline to ensure complete unit and integration test coverage before UAT.
- Collaborated to build a distributed automated testing framework via JGroups, transforming a manual Cucumber/Serenity regression suite and cutting manual QA effort by 80% to earn client leadership recognition.
- Served as offshore team lead and primary client contact, facilitating Agile ceremonies, mentoring developers, and authoring development plans to keep technical delivery aligned with evolving business priorities.

Back-End Developer | TCS — Client: **Fiat Chrysler Automobiles (FCA)**

May 2019 – Apr 2020

CaDET — Campaign Data Extraction Tool for Recall Management

- Built a Spring Boot batch application to ingest safety-critical vehicle component data from files into Oracle DB, where production correctness was non-negotiable.
- Took ownership of AppScan vulnerability remediation across several legacy modules, hardening the codebase to a standard that enabled clean, confident production releases.

Senior Application Developer / Tech Lead | Infosys Ltd. — Client: **Fiserv**

Feb 2016 – Apr 2019

BackOffice Tool, Gift Card Order System & Boarding Web Services

- Led back-end development across three connected financial platforms using Core Java, Spring, and RESTful Web Services, while resolving recurring portfolio-wide AppScan security vulnerabilities via a Log4j2 migration that saved an estimated 450 developer hours.
- Fostered engineering excellence by mentoring developers one-to-one, leading regular code reviews, and driving reusable component patterns that saved approximately 80 hours of duplicated effort.

Senior Application Developer | Capgemini — Client: **CitiGroup Inc.**

Aug 2014 – Feb 2016

Obligor Limit Exception — Risk Management Platform

- Contributed to a real-time risk management platform monitoring obligor limit exceptions across public and private fund groups, with a focus on performance, reliability, and financial exposure controls.

Senior Application Developer / Tech Lead | Finlogic Technologies

Dec 2010 – Jan 2014

Travel Management Systems, Automation Tooling & HR Platforms

CERTIFICATIONS

- GCP Professional Cloud Architect — Google Cloud
- Claude Certified Architect - Foundations — Anthropic
- Oracle Certified Associate — Java SE 7 Programmer

EDUCATION

Bachelor of Engineering in Computer Engineering | India | 2009