

Avishek Upadhyay

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SUMMARY

Lead Software Engineer with 7 years of expertise in building scalable enterprise applications using Java, Spring Boot, and microservices. Skilled in problem solving, performance tuning, data governance, API design, and cloud deployment — actively following AI trends, experimenting with AI tools & agents to future-proof applications and drive innovation.

TECHNICAL SKILLS

- **Languages** : Java, Python, JavaScript, SQL
- **Frameworks** : Spring Boot, Hibernate, JPA, React.js, Node.js
- **Testing** : Junit, Mockito, Cucumber, Jest, Cypress
- **Tools** : Gradle, Maven, Docker, Jenkins, CI/CD, Git, Kubernetes
- **Databases** : PostgreSQL, MySQL, Redis, Neo4j, MongoDB
- **Technologies** : Kafka, Drools, JWT, GraphQL, REST, Swagger, Redux
- **Cloud** : AWS, IBM Maximo, FlexPLM, Collibra
- **Monitoring** : Prometheus, Grafana, Splunk, Loki, JConsole

EXPERIENCE

Principal Engineer

Wissen Technology / Morgan Stanley

Oct 2022 – Present

Bangalore, India

- Developed Collibra Data Governance apps using Java & Spring Boot with React dashboards, deployed on AWS, driving firm-wide adoption and 30% improved cataloging via automated lineage tracking and glossary mapping workflows.
- Led a 5-member Agile team to deliver impactful projects and PoCs. Implemented multithreading, Spring Batch & Scheduled Jobs to boost system throughput by 25% for over 50K daily upload tasks.
- Reduced metadata processing latency by 20X through innovative use of Kafka, Redis, Proxy, and Caching patterns.
- Engineered rule-based workflows using Drools, Data structures & algorithms resulting in 30% improvement in cataloging efficiency.
- Contributed to the development of a MERN stack-based service that offloaded non-core functionality from Spring Boot systems, cutting down service startup time by 50%.
- Upgraded legacy Spring applications to Spring Boot 3.x with Java 17/21, resulting in a 15% performance improvement.

System Engineer

Tata Consultancy Services

Jun 2018 – Oct 2022

Kolkata, India

- Modernized Wealth Management (WM) Systems by migrating Struts to Spring MVC and optimizing MySQL and JPA queries, achieving 14% faster transactions.
- Built Enterprise Asset Management solutions using Java, Spring & JDBC, integrating IBM Maximo and designing MxLoader-based ETL pipelines for third-party data migration.
- Optimized FlexPLM backend and managed GitHub build/release pipelines – achieving 95% deployment success rate.

PROJECTS

AnchorFlow

Java, Spring Boot, Kafka, Neo4j, Docker

[Source Code](#)

- Stores multi-level hierarchical data in Neo4j with nested relationships
- Integrated Kafka for high-volume event processing (3x increased throughput) using Docker containerization.

MetaStore

Java, Spring Boot, Redis, PostgreSQL, Docker

[Source Code](#)

- Fetches metadata from Redis cache and PostgreSQL with detailed statistics
- Includes CRUD, search, and auto-load test data scripts with full Docker setup
- Achieved 18x–25x faster data and search retrieval using caching

Portfolio Website

HTML5, CSS3, JavaScript

[Live Site](#)

- Responsive portfolio site using HTML, CSS, and JavaScript
- Features smooth navigation, mobile support, social links, and 24×7 availability.

KEY ACHIEVEMENTS

- **Technical Leadership:** Developed scalable solutions at Morgan Stanley that improved efficiency by 30-40%
- **Mentorship:** Mentored a 5-member team & promoted open communication, resulting in a 15% boost in delivery
- **Performance Optimization:** Achieved 20x faster metadata processing through innovative cache optimization

CERTIFICATIONS & APPRECIATIONS

- Agile Certification – Morgan Stanley
- Udemy Gradle Certification
- TCS Maximo Certifications (Functional & Technical)
- Rank under 500 in TCS CodeVita
- Ranked 1 in college coding community on CodeChef
- "MyThanks" recognition at Morgan Stanley for Workshops

EDUCATION

Kalyani Government Engineering College

B.Tech in Computer Science & Engineering

West Bengal, India

Jul 2014 – Jun 2018

- Percentage: 70.90%, Affiliated with MAKAUT
- Specialization in Computer Science & Engineering
- Completed coursework in Data Structures, Algorithms, and DBMS

National English School

Higher Secondary (XII)

Kolkata, India

2011 – 2013

- Percentage: 82.60%
- Science Stream with Computer Science

National English School

Secondary (X)

Kolkata, India

2009 – 2011

- Percentage: 82.14%
- School Topper in Computer Applications

LANGUAGES

- English (Professional Proficiency)
- Hindi (Native)
- Bengali (Native)

PHILOSOPHY

"Like nature, great code grows organically — start simple, iterate often, and respect the process."