



# AVISHEK UPADHYAY

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**GitHub:** <https://github.com/avisheku>

## SUMMARY

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Senior software engineer & Principal Engineer with 6+ years of experience in developing scalable applications and microservices. Specialized in full-stack development using Java and Spring Boot. Proven track record of delivering high-performance solutions and leading development teams.

## WORK HISTORY

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**Principal Engineer | Wissen Technology | Bengaluru**

**October 2022 – Present**

**Data Governance & Cataloging | Morgan Stanley**

- Led development and enhancement of data governance and report glossary systems using Java, Spring Boot, and Collibra, enabling enterprise-wide governance and metadata cataloging.
- Built a Docker-based Gradle project for streamlined report metadata cataloging with multi-level validations and rule-based workflows using Drools, reducing new data issues by 90%.
- Automated metadata generation using Java annotations, reflection, and cucumber testing frameworks, increasing cataloging by 30%.
- Designed comprehensive data lineage mapping for real-time metadata cataloging and cross-functional collaboration, automating approval workflows for a 10% ease-of-use improvement.
- Optimized real-time data processing using Kafka, PostgreSQL, DFS algorithm, and Redis caching, enhancing platform performance by 25%.
- Led a 5-member agile team, conducted technical showcases, mentored team members, and onboarded 8 new hires, contributing to a 15% revenue increase.

**Systems Engineer | Tata Consultancy Services | Kolkata**

**June 2018 – October 2022**

**Wealth Management | Citibank**

- Enhanced wealth management systems using Java, Spring Framework, and MySQL, optimizing JPA queries to improve transaction performance by 14%.
- Migrated legacy systems from Struts to Spring MVC, improving maintainability and reducing defects.

**Enterprise Asset Management**

- Developed and maintained web applications using Java, J2EE, Spring, Hibernate, and MySQL, integrated with IBM Maximo for asset management.
- Designed ETL programs to migrate data from third-party systems to Maximo via MxLoader for seamless integration.

**Product Lifecycle Management**

- Developed backend solutions with Java, Spring, and JDBC integrated with FlexPLM, including customization, configuration, reporting, and deployment on Unix servers using MobaXterm.
- Managed GitLab repositories as a Build Manager, handling creation, maintenance, builds, and release of development changes.

## PROJECTS

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### Anchorflow

Java 17, Spring Boot, Gradle, Neo4j, Kafka, Drools

<https://github.com/avisheku/anchorflow>

- Stores multi level hierarchical (Anchor → Node → Leaf) data in Neo4j with dynamic relationships.
- Integrated Kafka for event-driven processing and Docker for containerized deployment.

### MetaStore

Java 17, Spring Boot, PostgreSQL, Redis, Docker, Swagger

<https://github.com/avisheku/metastore>

- Fetches metadata from Redis cache and PostgreSQL with detailed statistics.
- Includes CRUD, search, and auto-load test data scripts, with full Docker setup.

### Spring Boot Ollama App

Java 17, Spring Boot, Ollama, REST API

<https://github.com/avisheku/spring-boot-ollama-app>

- Local LLM-based API mimicking ChatGPT's structure for local inference and testing.
- Ideal for lightweight, private text generation without external API dependency.

## EDUCATION

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### B.Tech in Computer Science & Engineering

March 2014 - June 2018

Kalyani Government Engineering College

- Affiliated with Maulana Abul Kalam Azad University of Technology, West Bengal.
- Percentage: 70.90%

### HSC 12th

March 2012 - March 2013

National English School

- Affiliated to CISCE, New Delhi.
- Percentage: 82.60%

### SSC 10th

March 2010 - March 2011

National English School

- Affiliated to CISCE, New Delhi.
- Percentage: 82.14%

## SKILLS

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- **Programming Languages:** Java, Python, JavaScript, C/C++
- **Build Tools:** Gradle, Kotlin, Maven
- **Frameworks:** Spring Boot, Spring Framework, Hibernate, JPA, Apache Kafka
- **DevOps:** Docker, AWS, BitBucket, GitLab, Git, Jenkins, Jira
- **Testing Tools:** JUnit, Cucumber, Swagger, Postman, Mockito, JaCoCo
- **Databases:** PostgreSQL, MySQL, Redis
- **Enterprise Tools:** IBM Maximo, FlexPLM, Collibra
- **Performance:** Loki, Grafana, Prometheus, Splunk, IBM Heap Analyzer, JConsole

## ADDITIONAL INFORMATION

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- **Languages:** English, Hindi, Bengali.
- **Certifications:** Morgan Stanley Agile Certification, Udemy Gradle Certification, Android Certification, TCS Maximo Certifications (Functional & Technical - E1 & E0), TCS Core Java Certification
- **Achievements:** Received "My Thanks" recognition at Morgan Stanley for conducting workshops, Secured rank under 500 in TCS CodeVita, Ranked 1 in college coding community on CodeChef, Runner-up in inter-school fashion parade, Winner of PowerPoint presentation competition in school