

Avishek Upadhyay

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PROFILE

Principal Engineer with 7 years of experience in developing scalable applications & microservices using Java, Spring Boot framework.

EDUCATION

Kalyani Government Engineering College

West Bengal, India

Bachelor of Technology in Computer Science and Engineering (B.Tech CSE)

2014 – 2018

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

National English School

Kolkata, India

HSC 12th - XII

2012 – 2013

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

SSC 10th - X

2010 – 2011

- Percentage: 82.14%

SKILLS

Technical: Java, Spring Boot, Spring MVC, Hibernate, JPA, Kafka, Drools, JUnit, Mockito, Swagger, RESTful APIs, GraphQL, Gradle, Kotlin, Maven, PostgreSQL, MySQL, Redis, Neo4j, MongoDB, JWT, Python, JavaScript, HTML5, CSS3

Tools: Postman, Docker, AWS, Bitbucket, GitHub, GIT, JIRA, Jenkins, Splunk, Loki, Grafana, Prometheus, IBM Heap Analyzer, JConsole, Kubernetes (K8s), IBM Maximo, FlexPLM, Colibra

EXPERIENCE

Wissen Technology | Morgan Stanley

Bangalore, India

Principal Engineer

October 2022 – Present

- Developed Colibra Data Governance apps using annotations and reflection for 30% faster cataloging, driving firm-wide adoption and expanding metadata coverage through lineage and glossary mapping.
- Leveraged multithreading & Spring Batch to process 50K+ daily tasks (35% faster processing, 40% lower latency), scaling linearly with enterprise demand.
- Engineered rule-based workflows using Drools, applying Data Structures and Algorithms (DFS), yielding a 30% improvement in cataloging efficiency.
- Reduced metadata processing latency 20X (200ms to 10ms) using Kafka, Redis, Proxy & Caching patterns, elevating platform performance by 25% while enforcing scalable & fault-tolerant System Design principles.
- Optimized Jenkins CI/CD with SonarQube, Cucumber, JaCoCo, & Trivy resolving critical blockers and boosting deployment reliability via DevOps best practices.
- Led a 5-member Agile team, mentoring & fostering collaboration through workshops and onboarding sessions - resulting in a 15% boost in delivery speed and improved sprint velocity.

Tata Consultancy Services

Kolkata, India

System Engineer

June 2018 – October 2022

- Modernized Wealth Management (WM) Systems by migrating Struts to Spring MVC and optimizing MySQL & JPA queries achieving 14% faster transactions.
- Built Enterprise Asset Management (EAM) solutions using Java & Spring stack with MySQL, integrating IBM Maximo and designing MxLoader based ETL pipelines for third-party data migration.
- As a Key Contributor & Build Master for Product Lifecycle Management (PLM) systems, optimized FlexPLM backend (Java/Spring/JDBC), managed GitLab build/release pipelines, and deployed on Unix via MobaXterm - achieving 95%+ deployment success.

PROJECTS

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.
- 18x–25x faster data and search retrieval with caching.

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 Artificial Intelligence (AI) inference & testing.
- Ideal for lightweight, private text generation without external API dependency.

Portfolio

JavaScript, CSS, HTML

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

- Created a responsive portfolio site using HTML, CSS, and JavaScript to showcase experience, education, and hobbies.
- Added smooth navigation, mobile support, and social links for better engagement and visibility.

ACHIEVEMENTS

- 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 interschool fashion parade, Winner of PowerPoint presentation competition in school.

LANGUAGES

- English, Hindi, Bengali