

Md Asif

Java Backend Developer | B.Tech CSE Pre-Final Year

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LinkedIn | GitHub | Portfolio | Codolio

Professional Summary

Pre-final-year Computer Science student focused on Java backend development with hands-on experience in Spring Boot, REST APIs, Spring Data JPA, Hibernate, Spring Security, MySQL, and automated testing. Built retrieval and dataset workflows for a multilingual voice-enabled RAG system in a three-member hackathon team.

Technical Skills

Languages: Java, C++, Python, JavaScript, TypeScript

Backend: Spring Boot, Spring Data JPA, Hibernate, Spring Security, REST APIs

Security: OAuth 2.0, JWT

Database: MySQL

Frontend: React.js, Tailwind CSS

Testing: JUnit 5, Mockito, MockMvc

Tools: Git, GitHub, GitHub Actions, Postman

Projects

EchoRAG

GitHub | Live Demo

Technologies: Python, TypeScript, Next.js, Hugging Face Datasets, ONNX, multilingual-e5-small, HNSW, Pandas, PyArrow

- Worked as the **Retrieval & Dataset Engineer** in a three-member team at HH Goa, contributing to a multilingual, grounded voice-RAG application.
- Explored and validated the **ai4bharat/MSMARCO-XI** dataset containing **778,638 records**; inspected its multilingual query, answer, passage, and relevance-label schema using Pandas and PyArrow.
- Developed dataset-loading and preprocessing workflows and documented the retrieval-unit decision to produce consistent inputs for embedding and vector retrieval.
- Contributed to the dense retrieval pipeline using **multilingual-e5-small** embeddings and **HNSW**-based vector search, supporting grounded responses across multiple Indian languages.

Problem Solving & Achievements

- Solved **370+ data structures and algorithms problems**: 245 on LeetCode and 125 on GeeksforGeeks, tracked through Codolio.
- Maintained an **86-day coding streak**, demonstrating consistent problem-solving practice across core DSA topics.

Education

Kanpur Institute of Technology, Kanpur

2024–2028

B.Tech in Computer Science and Engineering, Dr. A.P.J. Abdul Kalam Technical University

CGPA: 8.2/10

Jawahar Navodaya Vidyalaya, Lakhimpur Kheri

2023

CBSE Class XII

84%

Jawahar Navodaya Vidyalaya, Lakhimpur Kheri

2021

CBSE Class X

92.4%

Relevant Coursework

Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Software Engineering