Aditya Tiwari

adityatiwari210502@gmail.com +91 73898 74737 aditya-tiwari-81092b238 AadiDev005

Summary

Backend Engineer skilled in building scalable distributed systems using Java (17+), Golang, Spring Boot, and Kafka. Experienced in designing microservices, real-time pipelines, and secure cloud-native deployments on AWS, Azure, and Kubernetes. Proficient in high-performance APIs, task orchestration, and data modeling with PostgreSQL and MongoDB.

Technical Skills

Languages: Java (17+), Golang **Backend:** Spring Boot, REST APIs, PostgreSQL, MongoDB **Security:** JWT, OAuth2, AES, RBAC
DevOps: Docker, Kubernetes, AWS (EC2, EKS, S3, IAM), Azure, Git, Jenkins, GitHub Actions **Messaging:** Kafka, RabbitMQ **Monitoring:** Prometheus, Grafana
Tools: GitHub, Postman, IntelliJ, VS Code **Testing:** JUnit **Data Formats:** JSON, XML **Other:** Algorithms & Data Structures

Experience

Research Intern — IIITDM Kancheepuram *(Jan 2025 – May 2025)* **GitHub**

- Designed and implemented a distributed AI training platform using **Spring Boot**, **Kafka**, and microservices.
- Reduced model training time by **40%** through dynamic task orchestration across 3+ nodes.
- Scaled to **1.2 GB+ datasets** via Dockerized MongoDB on AWS EKS; achieved **95% accuracy** using DL4J.

Projects

Secure Notes Management System **GitHub**

- Developed a secure microservices-based notes platform using **Spring Boot** with **AES**, **JWT**, and **RBAC**.
- Deployed using Docker; integrated CI/CD pipeline for rapid cloud deployment.

AI-Powered Email Assistant Extension **GitHub**

- Built an intelligent email reply engine using **Spring Boot** and **Gemini API**, automating context-aware responses.
- Integrated browser extension frontend; improved user productivity by **40%**.

Decentralized File Storage System **GitHub**

- Engineered a peer-to-peer file storage system in **Golang** with **AES encryption** and **RBAC**.
- Improved data throughput by **40%** using custom encoding, buffering, and retry logic.

Certifications

Goldman Sachs Software Engineering Virtual Experience – Assessed **MD5** vulnerabilities, demonstrated attacks with **Hashcat**, and proposed **bcrypt/Argon2**, **MFA**, and security best practices.

Education

Bachelor's Degree in Mechanical Engineering Expected Graduation: 2025
Indian Institute of Information Technology Kancheepuram

- Relevant Coursework: Advanced Data Structures & Algorithms, Operating Systems, Software Engineering, Computer Networks