KUSHAGRA TIWARI

Computer Science Engineering Student

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Professional Summary

B.Tech Computer Science Engineering student with hands-on experience building full-stack Java and React applications, designing CI/CD pipelines, and deploying cloud-native solutions on AWS. Skilled in Spring Boot, REST APIs, DevOps tooling, JWT-based security, and vector similarity search using Spring AI. Passionate about scalable backend systems and automation.

Notable Achievements

✔ Reduced unauthorized access attempts by **15%** via stateless Spring Security + JWT authentication layer.

✔ Improved product discovery relevance by **30%** integrating Spring AI and ChromaDB for vector-based similarity search.

✔ Designed Jenkins CI pipeline cutting deployment time by **20%** and eliminating **95%** of manual build errors.

✔ Optimized API response times by **25%** via layered MVC architecture with Data Transfer Objects (DTOs).

Projects

AI-Powered Full-Stack E-Commerce Platform   View Project
Full-Stack Developer

- Built modular Spring Boot backend with React frontend; deployed on AWS ensuring high availability and automated scalability.

- Reduced unauthorized access attempts by 15% via stateless Spring Security + JWT authentication layer.

- Improved product discovery relevance by 30% integrating Spring AI and ChromaDB for vector-based similarity search.

CI/CD Pipeline Automation   View Project
DevOps Engineer

- Designed Jenkins CI pipeline cutting deployment time by 20% and eliminating 95% of manual build errors.

- Configured Jenkinsfile pipeline-as-code for reproducible, environment-consistent builds and tests.

Full-Stack Job Application Platform   View Project
Backend Developer

- Optimized API response times by 25% via layered MVC architecture with Data Transfer Objects (DTOs).

- Managed dependencies via Maven and deployed using a Jenkinsfile-based CI/CD pipeline.

Skills

Spring Security   Redux Toolkit   RESTful APIs   PostgreSQL   Spring Boot   Maven   ChromaDB   MongoDB   Hibernate
Spring AI   React.js   Python   MySQL   AWS   Java   Docker   Jenkins   Git

Education

2023 – 2027   **B.Tech in Computer Science Engineering**

KIPM College of Engineering & Technology, Gorakhpur, UP

CGPA: 7.6 / 10

2022   **Higher Secondary (Class XII)**

N E Railway Boys Inter College, Gorakhpur, UP

71%

Accomplishments

Certifications

- **AWS Certified Cloud Practitioner** - Amazon Web Services

- **HackerRank Skill Certification – Problem Solving (Java)** - HackerRank

- **Linux (Ubuntu) Certification** - Linux

- **Agile Project Management Certification** - Agile