

Ayush Singh

[LinkedIn](#) | [GitHub](#) | [Leetcode](#)

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EDUCATION

Ajay Kumar Garg Engineering College

Bachelor of Technology in Computer Science (CGPA of 8.2)

Ghaziabad, Uttar-Pradesh, India

Oct 2023 – Oct 2027

WORK EXPERIENCE

Cloud Computing Cell

Backend Developer

Oct 2024 – Ongoing

Ghaziabad, Uttar Pradesh, India

- Working as a **backend developer** in a 45-member team, contributing to technical initiatives and project development.
- Developing and optimizing backend systems for various college projects, ensuring scalability and efficiency.

PROJECTS

Imago

Spring Boot, MongoDB, Java, Docker

[Source Code](#)

- Developed a robust **Spring Boot** API for image processing with **MongoDB** for efficient storage and retrieval.
- Integrated advanced image processing features, including **background removal** via an ML API, resizing, cropping, compression, watermarking, and format conversion.
- Implemented **JWT authentication** for secure API access and role-based authorization.
- Designed a modular and scalable architecture, ensuring seamless deployment via **Docker**.
- Tested API endpoints rigorously using **Postman**, ensuring high reliability and performance.

AlgoTrack

Spring Boot, Java, Docker

[Source Code](#)

- Built a **Spring Boot** microservice to aggregate and analyze competitive coding profiles from **GitHub**, **LeetCode**, **Codeforces**, and **CodeChef**.
- Implemented API integrations to fetch real-time user statistics, providing consolidated coding performance insights.
- Optimized response times by designing an efficient caching mechanism and asynchronous processing for high availability.
- Conducted extensive load testing to validate system stability under peak traffic conditions.
- Containerized the application with **Docker** to ensure platform-independent deployment.

Movie Blog API

Spring Boot, MySQL, Java, Docker

[Source Code](#)

- Developed a **RESTful API** for a movie blogging platform, enabling CRUD operations with **MySQL** as the database.
- Implemented **JWT-based authentication** to safeguard user accounts and prevent unauthorized access.
- Designed and optimized database schemas, reducing query execution time and enhancing data consistency.
- Ensured robust security measures, including role-based access control and input validation.
- Deployed using **Docker**, facilitating seamless scalability and streamlined environment setup.

TECHNICAL SKILLS

Languages	: JavaScript, Java, HTML, CSS
Frameworks	: SpringBoot
Databases	: MongoDB, MySQL
Dev Tools	: Visual Studio Code, Git, IntelliJ ,PostMan