

Gaurav Kumar

Third Year (B.Tech)
Computer Science & Engineering

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Web.: <https://grvkmr2003.github.io/GrvPortfolio/#projects>

Links

LeetCode:// [grv_kmr](#) (300+ Qns)
HackerRank:// [gkmr](#) (5 Star)
GitHub:// [GrvKmr2003](#)
LinkedIn:// [Gaurav_kumar](#)

Skills

OS
GNU/Linux, Windows

Languages
Java, C++, Python, JS

Framework & Tools
SpringBoot, Spring, React
Hibernate, SQL
Web Services (RESTful)
Docker & Kubernetes

Databases
MySQL, MongoDB Atlas, H2

Advance Data Structures
Segment Tree, Sparse Table,
Trie, Graphs

Coursework

Data Structures Algorithms
DBMS(MySQL)
Object Oriented Programming
Operating Systems
Computer Networks

Education

2022-2026
Third Year B.Tech
Computer Science & Engineering
Army Institute of Technology, Pune

2020-2021
Intermediate
Kendriya Vidyalaya No.1, Udampur
(Jammu & Kashmir)
Percentage: 84.5%

Professional Summary

Real-life Problem Solver with expertise in Java, Spring Boot, RESTful APIs, and algorithm optimization.

Projects

- FEB-2024 Radar Detection and Tracking System** **Spring Boot, RestAPI**
- Engineered a web-based defense system to track and predict drone, plane, and ship movements with 80% accuracy.
 - Implemented Segment Trees for real-time speed prediction, enhancing military situational awareness.
- APR-2024 Defense Supply Chain System** **SpringBoot, RestAPI**
- Developed a supply chain system using Dijkstra's algorithm to identify optimal routes, avoiding obstacles and enemy Zones.
 - Achieved 85% route optimization accuracy, ensuring resource efficiency during critical operations.
- AUG-2024 Hotel Microservices** **API Gateway, Service Registry, Rate-limiting**
- Engineered a **microservices** backend with user, hotel, and rating services; implemented service registry, API gateway, fault tolerance, and optimized inter-service communication using Feign clients and RestTemplate.

Professional Experience

- 2022-Nov Stumato** **Project Management Intern**
- Directed database operations for Stumato, optimizing data management and streamlining team coordination. Secured endorsement from an Army General for implementation at CME Pune.
- Firebase, XML, Android Studio, Management*
- 2023-NOW Google Developer Student Clubs** **Domain Lead**
- Spearheaded initiatives as Android Facilitator and Java Lead at GDSC AIT; organized the ENLIVEN hackathon with 250+ participants, crafted its webpage, and facilitated Android workshops in collaboration with GDG.
- Andoid, XML, Java, Springboot, React*

Leadership & Achievements

Branch Head, Computer Department Spearheaded initiatives and mentored peers in technical skills.

MasterCard Hackathon Secured 3rd Runner-Up position among 1,000+ participants (Feb 2024).

Secretary, Google Developer Student Clubs (GDSC)

Team Lead, Border Communication Exchange App

Interest/Hobbies

- Problem-solving:** Solved 700+ algorithmic problems on platforms like CodeForces, LeetCode, and HackerRank.
- Sports:** National-level basketball and football player.