

Saurav Sharma

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Education

ABES Information of Technology, Ghaziabad
B.Tech in Computer Science & Engineering

July 2019 – July 2023

Work Experience

Project Associate
CDAC

Noida, India
Dec 2024 – Present

- Engineered real-time GIS tools using DEM data, achieving 90%+ accuracy in hazard zone prediction and enabling faster disaster response planning across multiple districts..
- Built a full-stack procurement platform with role-based workflows, reducing manual processing time by 60% and streamlining inter-departmental approvals.
- Delivered robust backend logic with Java + Spring Boot and dynamic frontends in React, integrating geospatial analysis and API-driven automation to optimize system efficiency and reliability.
- Collaborated on an R&D project under the National Quantum Mission (MeitY) and developed the frontend for a disaster escape routing simulator. Implemented interactive visualizations of evacuation paths using classical algorithms like Dijkstra and A* to help users identify the shortest and safest routes.

Java Developer
Aryson Technologies

Noida, India
Oct 2023 – Nov 2024

- Collaborated with cross-functional teams (product, QA, dev, clients) to convert business needs into scalable technical solutions, accelerating delivery timelines by up to 25%.
- Resolved high-priority issues with 85%+ accuracy, minimizing downtime and ensuring smooth project execution.
- Spearheaded the full SDLC for Java-based applications, contributing to a 30% increase in system reliability and feature delivery speed.
- Diagnosed and resolved complex technical issues, reducing bug-related delays by 40% through advanced debugging and root-cause analysis.
- Architect and deployed scalable Spring Boot microservices and REST APIs, boosting system performance and enabling 50% faster data migrations.

Technical Skills

Languages: Java, C++, JavaScript, HTML, CSS, Oops

Framework: Spring Boot, Java Swing, Hibernate, ReactJS, REST Api

Database: My SQL, DBMS

Developer Tools: IntelliJ Idea, Eclipse, VS Code, Github , Postman, Jira, Json Parsing, Git,

Projects

Natural Disaster Simulator(CDAC – National Quantum Mission (MeitY))

[Project Link](#) 📄

- Developed GIS-based simulation tools for disaster risk analysis using DEM data and classical algorithms.
- Enabled 90%+ accuracy in hazard zone prediction, aiding government decision-making and rapid response planning.
- Built interactive visualizations to display flood/quake impact areas based on elevation and intensity input.
- Created an intuitive interface for real-time route visualization during disaster events.
- Collaborated on algorithm integration and UI refinement for usability and clarity.

Indent Managment System (CDAC)

- Implemented multi-role access, approval workflows, and real-time status tracking, reducing processing time by 60%.
- Delivered a user-friendly dashboard for administrators, purchase teams, and end-users.
- Built a full-stack procurement automation system using Java, Spring Boot, and React.

Duplicate File Finder & Remover(Aryson Technologies)

- Engineered a Java application to detect and remove duplicate files using MD5 hashing.
- Supported multiple file types (documents, media, emails), reducing redundant storage usage by up to 35%.
- Improved system performance and storage efficiency through intelligent file indexing.

Achievements

Pitch-a-Bizz 1.0

Smart India Hackthon (2022)