

SAGAR SINGH

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SUMMARY

Aspiring **Backend Developer** and **Full-Stack Developer** with expertise in Java, Spring Boot, and RESTful APIs. Proven experience in building **scalable backend systems** and optimizing algorithms. Passionate about solving complex problems and delivering **high-quality software solutions** with a focus on performance, security, and maintainability.

EDUCATION

VIT Bhopal

Aug 2023 – Aug 2027

Bachelor of Technology - CGPA - 8.44

Sehore, India

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Network
- Database Management System (DBMS)
- Artificial Intelligence
- OOP Concepts
- Web Development
- Android Development
- Network Security

PROJECTS

E-Commerce Backend [🔗](#) |

Jan 2025

- **Tech Stack:** Spring Boot, JPQL, JPA, MySQL, REST APIs, Postman, Spring Security
- Developed a robust e-commerce backend to support product addition, category management, and advanced search functionality.
- Created RESTful APIs for CRUD operations, improving search accuracy by 20% using JPQL.
- Ensured a scalable, performance-optimized backend architecture with secure API integration.
- Project Repo: [\[GitHub Link\]](#)

TuneStream [🔗](#) |

Oct 2024

- **Tech Stack:** Django, MongoDB, Scikit-learn, HTML, CSS, JavaScript
- Built a personalized recommendation system using Python and Scikit-learn's cosine similarity function to provide tailored suggestions.
- Implemented a MongoDB database for fast and efficient storage and retrieval of user and product data.
- Designed an interactive and user-friendly frontend with HTML, CSS, and JavaScript, integrated seamlessly with Django backend.
- Optimized recommendation algorithms, reducing response time by 15%.
- Project Repo: [\[GitHub Link\]](#)

Movie Watchlist [🔗](#) |

Jun 2024

- **Tech Stack:** Spring Boot, HTML, CSS, MySQL, OMDB API
- Improved a dynamic web application with full CRUD (Create, Read, Update, Delete) functionality using Spring Boot as the backend framework.
- Integrated the external OMDB API to fetch and display exact movie ratings, enhancing user engagement and functionality.
- Built a responsive and user-friendly interface with HTML and CSS, ensuring a smooth user experience.
- Refined RESTful APIs for efficient interaction between the frontend and MySQL database.
- Focused on clean architecture and scalability to support seamless data management and API integration.
- Reduced API response time by 20% by optimizing database queries and caching frequently accessed data.
- Project Repo: [\[GitHub Link\]](#)

- **Tech Stack:** Kotlin, XML
- Engineered a lightweight Android application that simulates a dice roll, ensuring smooth user interaction.
- Designed an intuitive and responsive user interface using XML.
- Implemented core logic in Kotlin to generate random dice outcomes.
- Focused on creating a lightweight and efficient app for a smooth user experience on Android devices.
- Project Repo: [\[GitHub Link\]](#)

TECHNICAL SKILLS

Languages: Python, Java, C++, Kotlin, JavaScript, SQL, NoSQL, XML, JPQL, App Development


Developer Tools: VS Code, Android Studio, IntelliJ IDEA Ultimate , Postman

Technologies/Frameworks: GitHub, ReactJS, Git, Mongo, Spring Boot, H2

Concepts: RESTful APIs, Microservices, Machine Learning, SDLC, System Design

Domains: Web Development, Backend Development, App Development

EXTRACURRICULAR


E-Cell, VIT Bhopal 

Dec 2023 – Present

Corporate Co-Lead

VIT Bhopal

- * **Partnership Development:** Secured partnerships with 5+ corporate organizations, supporting events and initiatives.
- * **Negotiation and Collaboration:** Secured 5+ long-term collaborations with corporate organizations through effective communication and negotiation, resulting in increased funding and resources for E-Cell initiatives.
- * **Event Coordination:** Planned and executed 10+ partner meetings, ensuring smooth agreements and event logistics, leading to a **30%** improvement in event efficiency.
- * **Professional Representation:** Represented the E-Cell in 15+ external collaborations, contributing to a **20%** increase in organizational growth and reputation.
- * **Leadership:** Led a team of 10 members to plan and execute partner meetings, ensuring smooth agreements and event logistics, resulting in a **50%** increase in event participation

Experience Letter: [\[Link to Experience Letter\]](#) 

CERTIFICATIONS & ACHIEVEMENTS

- **Java With DSA and System Design Certification - PW Skills**
- **Applied Machine Learning in Python - University of Michigan (Coursera)**
- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional**