Kshitij Ratnawat

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SUMMARY

MCA student at NIT Bhopal with strong programming and problem-solving skills. Experienced in full-stack development using React.js and Spring Boot. Passionate about contributing to impactful projects and excelling in software development roles.

EDUCATION

Maulana Azad National Institute of Technology, Bhopal   Aug 2023 - May 2026
Master of Computer Applications (MCA) | CGPA: 7.650

Rajiv Gandhi Govt. PG College, Mandsaur   July 2020 - April 2023
Bachelor of Computer Applications (BCA) | CGPA: 7.02

Alpha Senior Secondary School, Shamgarh   July 2019 - May 2020
Higher Secondary School (XIIth) | Percentage: 81.6

WORK EXPERIENCE

Freelance Full Stack Java Developer | *React.js, Spring Boot, Spring Security, Hibernate, MyS*QL   Oct 2024 - Dec 2024
Build & Deliver Project to Client

- Designed and developed a responsive e-commerce website with product listing, advanced filters, and secure checkout.
- Built RESTful APIs for seamless frontend-backend communication and implement JWT security for secure authentication.

TECHNICAL SKILLS

- **Languages:** Proficient in Java, Intermediate in Python, Familiar with C, C++.
- **Databases:** MySQL, MongoDB.
- **Web Technologies:** HTML, CSS, React.js, Tailwind, JavaScript, Spring Boot, Spring MVC, Spring Security, Hibernate, J2EE.
- **Core Knowledge:** Data Structures & Algorithms (DSA), OOP, Operating System (OS), DBMS, Computer Networking.

PROJECTS

Hostel Hub | *Spring Boot, Spring Security, Hibernate, Thymeleaf, JavaScript, MySQL, HTML, CSS* | GitHub

- Developed a full-stack web application using Spring Boot, Hibernate, and MySQL.
- Implemented role-based authentication and access control to ensure data security and privacy.
- Optimized stay management operations, reducing paperwork by 70%, with automated real-time updates.

Career & Skill Development Platform (SIH 2024) | *React.js, Tailwind, Spring Boot, JWT, Hibernate, Security* | GitHub

- Built a Career Portal with Spring Boot, Hibernate, and MySQL, using Spring Security and JWT for secure login.
- Implemented skill assessment, job application, and resource management features to enhance user engagement and career growth.
- Designed secure login mechanisms using Spring Security and JWT, ensuring a 99% success rate for safe interactions.

Human Gait Cycle Analysis | *Python, Machine Learning, Numpy, Pandas, Sklearn, MatplotLib* | GitHub

- Designed a machine learning model using polynomial regression to predict human gait cycles with accuracy improvements of 25%.
- Conducted advanced data analysis using metrics such as mean squared error and R^2 score to evaluate model performance.
- Enhanced model prediction capabilities by optimizing polynomial curve fitting techniques.

ACHIEVEMENTS & AWARDS

- All India Rank **370** (Top 5%) in NIMCET 2023 Entrance Examination.
- Solved 400+ coding problems on **Codeforces**, **GeeksforGeeks**, and **LeetCode** (2022 – 2024).
- Participated in **Kriyeta 3.0 National Hackathon** and solved real-world problems (June 2024) | **Certificate**.
- Advanced through the internal round of **Smart India Hackathon 2024** based on technical innovation and project presentation.
- Completed a 6-week IBM CSRBox Frontend Internship with practical web development experience.