SUMIT VERMA

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EDUCATION

Vellore Institute of Technology, Bhopal   **2022 − 2026**
B.Tech - Computer Science and Engineering - **CGPA - 8.53**   *Bhopal, Madhya Pradesh*

EXPERIENCE

SDE Intern at InternBix ⧉   **Sep'24**
Role - Backend Developer | Java, SpringBoot, MySQL, DynamoDB, Redis, JUnit, Mockito, AWS

- Implemented JWT authentication & created a Job Portal feature from scratch to enhance HR workflows.
- Ensured job listings are visible to employees only after admin approval, maintaining the integrity of job.
- Achieved 85% unit test coverage using JUnit and Mockito, ensuring code reliability and quality.
- Minimized data retrieval latency through Redis caching, boosting overall operational efficiency.
- Deployed and managed infrastructure on AWS using Elastic Beanstalk, RDS, DynamoDB, S3, EC2.
- Integrated Swagger to provide user-friendly API documentation for improved developer experience.

PROJECTS

LLM-Driven AgriWeather Alert System ⧉ | Spring Boot, Twilio, LLM, MySQL, Scheduler   **2025**

- Developed an AI-powered system to send automated, bilingual weather summaries and next-day predictions.
- Integrated SMS and WhatsApp alerts to help digitally less-fluent farmers access weather updates.
- Leveraged Large Language Model to generate clear and concise, weather reports from raw weather data.
- Enabled multi-language support to effectively cater to diverse rural farmer communities across regions.
- Integrated voice call support, enabling users to access weather updates via speech in Hindi and English.

Contact Management System ⧉ | Java, SpringBoot, JPA, MySQL, Redis, Trie Data Structure   **2024**

- Developed a Contact Management System to significantly improve organization and accessibility of contacts.
- Implemented prefix search functionality using Trie data structure for fast and efficient lookups.
- Built RESTful APIs with Spring Boot for CRUD operations and seamless service-to-service communication.
- Enhanced overall application performance by integrating Redis caching to effectively reduce database load.
- Achieved 85% unit test coverage with JUnit and Mockito frameworks for core business logic validation.

TECHNICAL SKILLS

Languages & Frameworks: C++, Java, SpringBoot, SQL, Data Structures & Algorithms
Databases: MySQL, DynamoDB, Redis, PostgreSQL
Testing & Messaging: JUnit, Mockito, Kafka
Cloud: AWS (Elastic Beanstalk, RDS, S3, ElastiCache, Certificate Manager)
Essential tools: Git Version Control, Flyway, Swagger, Web Socket

ACHIVEMENTS

- Qualified for **ICPC Asia West Regionals 2024** and represented VIT Bhopal at the Amritapuri Site
- Accomplished a global **135**[th] rank out of 3500+ participants in CodeChef Starters 113 Contest
- Secured **Knight** with **1850+** rating, ranked among the top **5%** of coders in LeetCode Contests
- Achieved Global Rank **936**[th] and AIR **190** in Leetcode Weekly 429 Contest out of 23000 participant
- Attained 3 Stars at CodeChef with max rating of 1650+
- Earned 6 Stars at HackerRank in DSA

CERTIFICATIONS

- Postman Student Expert (Postman)
- Codejam farewell Round A (Google)
- Problem Solving Basic (HackerRank)
- SQL Basic (HackerRank)

EXTRACURRICULAR

- Technical Team **Lead** at BitByBit Club, VIT Bhopal   *Dec 2023 - Present*