

SUMIT VERMA

Ayodhya, Uttar Pradesh

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EDUCATION

Vellore Institute of Technology, Bhopal

2022 – 2026

B.Tech - Computer Science and Engineering - CGPA - 8.46

Bhopal, Madhya Pradesh

EXPERIENCE

SDE Intern at InternBix

Sep'24-Dec'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.

Efficient Application Release Pipeline | Docker, GitHub Actions, AWS EC2

2025

- Containerized a application using Docker and automated build-test-deploy stages via GitHub Actions.
- Set up a CI/CD pipeline to deploy on every push, enabling faster releases with no manual intervention.
- Provisioned AWS EC2 to host the app and integrate automated container lifecycle for smooth deployment.
- Troubleshoot and documented deployment challenges including container naming, cache invalidation, and service restart policies.

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 135th 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 936th 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

EXTRACURRICULAR

- Technical Team Lead at BitByBit Club, VIT Bhopal

Dec 2023 - Present