VIVEK YADAV

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PROFILE

Backend Software Engineer with hands-on experience in Java, Spring Boot, and REST APIs. Skilled in designing scalable systems through academic projects and internships. Passionate about clean code, problem-solving, and building practical solutions with measurable impact.

EDUCATION

Vellore Institute of Technology 2022 – 2026
B.Tech in Computer Science and Engineering **CGPA: 8.44**

EXPERIENCE

SDE Intern, DeepSurge AI Tech Pvt. Ltd. Jan 2025 – Apr 2025
Backend Developer — `Java, Spring Boot, MySQL, JUnit, AWS`

- Contributed to the design and implementation of the **Smart Health Consultation System** backend, ensuring modular and maintainable code across patient, doctor, and admin modules.
- Developed and integrated RESTful APIs with proper validation, error handling, and logging to support seamless front-end communication.
- Implemented authentication and role-based access control using JWT, enhancing system security and compliance.
- Designed AWS infrastructure (EC2, Beanstalk, RDS, DynamoDB, S3) for scalable deployment.

PROJECTS

Smart Health Consultation System [↗]
Spring Boot, MySQL (AWS RDS), Swagger **2025**

- Engineered a 3-role health system with 20+ endpoints for patient, doctor, and admin operations.
- Implemented secure file storage via AWS S3 with encrypted uploads and retrievals.
- Achieved 99% unit test coverage and reduced latency by 25% using service-layer optimization.

Smart Traffic Signal Optimization System [↗]
Spring Boot, Thymeleaf, MySQL, Google Maps API, JS **2025**

- Designed dynamic signal controller reducing idle time by ~20% using real-time congestion data.
- Integrated Google Maps API for live intersection tracking with auto-refreshing dashboard.
- Implemented analytics and data export modules for 100+ signal pattern reports.

SheShield – Smart Women Safety and Assistance Platform [↗]
Spring Boot, React.js, MySQL, Google Maps API, Swagger **2025**

- Built real-time SOS alert system with GPS tracking and automated SMS/email notifications.
- Secured APIs with JWT authentication and AES encryption across 25+ REST endpoints.
- Developed dashboards for users, police, and admins with integrated Swagger documentation.
- Deployed backend and DB on AWS (EC2 & RDS), ensuring high scalability and uptime.

TECHNICAL SKILLS

Languages: Java, Python
Frameworks: Spring, Spring Boot
Skills: Data Structures and Algorithms, Microservices, Distributed Systems, REST APIs, Multithreading
Tools: Git, Postman, Thymeleaf, Swagger
Cloud: AWS (EC2, S3, RDS, DynamoDB, Beanstalk)

EXTRACURRICULAR

- Technical Team Lead, CloudZone Club, VIT Bhopal *Dec 2023 – Present*
- Winner, Intra-University Chess Tournament, VIT Bhopal *2024*