

VIVEK YADAV

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EDUCATION

VIT Bhopal University, Bhopal, MP
B.Tech in Computer Science and Engineering

2022 – 2026
CGPA: 8.43

EXPERIENCE

SDE Intern, DeepSurge AI Tech Pvt. Ltd.

Jan 2025 – Apr 2025

Backend Developer — Java, Spring Boot, MySQL, Junit, AWS

- Engineered scalable backend modules with Spring Boot and MySQL, reducing response time by 25% and improving data throughput by 40%.
- Designed and deployed AWS infrastructure (EC2, Beanstalk, RDS, DynamoDB, S3), reducing deployment time by 60%.
- Automated API documentation with Swagger, cutting onboarding time for new developers by 50%.
- Collaborated in Agile team cycles to ship 8+ modules with 90%+ unit test coverage using Junit.
- Identified and resolved over 15 production issues, improving system uptime and stability.

PROJECTS

Smart Traffic Signal Optimization System 

Spring Boot, Thymeleaf, MySQL, Google Maps API, JS

2025

- Built dynamic traffic signal controller reducing vehicle idle time by 20% using real-time congestion data.
- Integrated Google Maps API to track live intersection statuses with auto-refreshing UI.
- Implemented data export and analytics module used to generate 100+ signal pattern reports.

Farmer-to-Consumer Platform 

React.js, Node.js, Express.js, MongoDB

2025

- Launched agri-marketplace handling 500+ concurrent user sessions and 300+ product listings.
- Reduced backend API response time by 30% through caching and DB indexing.
- Delivered secure authentication and role-based product access using JWT.

Smart Health Consultation System 

Spring Boot, MySQL (AWS RDS), Swagger

2025

- Designed role-based health management system with 3 user roles and 20+ endpoints.
- Enabled encrypted upload and retrieval of 200+ health records using AWS RDS and S3.
- Achieved 99% unit test coverage and 25% latency reduction using service-layer optimizations.
- Conducted full-cycle API testing with Swagger, Postman, and cURL.

TECHNICAL SKILLS

Languages: Java, SQL, MATLAB, DSA (600+ problems)



Frameworks: Spring Boot, React.js, Node.js, Express.js

Web: HTML, CSS, JavaScript

Tools: Git, Postman, Swagger, IntelliJ, VS Code

Cloud: AWS (EC2, S3, RDS, DynamoDB, Beanstalk)

CERTIFICATIONS ACHIEVEMENTS

- AWS Certified Cloud Practitioner** 
- DevOps Fundamentals (IBM)** 
- Solved **200+ problems** on [LeetCode](https://leetcode.com) and **600+ problems** on [Coding Ninjas](https://www.codingninjas.com)

EXTRACURRICULAR

- Technical Team Lead, CloudZone Club, VIT Bhopal
- Winner, Intra-University Chess Tournament, VIT Bhopal

Dec 2023 – Present
2024