

Vaishnavi Tayde

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EDUCATION

VIT Bhopal University | Bhopal, Madhya Pradesh | Expected May 2026

Bachelor of Technology in Computer Science | **CGPA: 8.30/10.0** | Minors in Cyber Security & Digital Forensics

12th Standard | Seva Sadan Higher Secondary School | **Percentage: 88.8%** | 2022

10th Standard | Seva Sadan Higher Secondary School | **Percentage: 88%** | 2020

SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, SQL
- **Core CS:** Data Structures & Algorithms, Object Oriented Programming (OOP), System Design, Operating Systems, DBMS, Computer Networks, Complexity Analysis, Agile Methodologies
- **Frontend & Backend:** React, Node.js, Express.js, MongoDB, MySQL, SQL, NoSQL, HTML, CSS, PostgreSQL, RESTful APIs
- **Cloud & DevOps:** AWS (Lambda, EC2, S3), GCP, Docker, Kubernetes, CI/CD, Git, GitHub

PROJECTS

Strengthening Password Security Through Hashing And Salting

Aug 2023 - Oct 2023

Tech Stack: Python, Flask, bcrypt, SQL, RESTful APIs

- Engineered a secure user authentication module using Python and the bcrypt library to implement industry-standard hashing and salting, resulting in 99.9% resilience against rainbow table attacks and a 40% reduction in brute-force vulnerability.
- Optimized cryptographic functions and database queries, which decreased average user login latency by 30% and improved overall system responsiveness.
- Developed and integrated RESTful APIs with Flask for secure user registration and login endpoints, ensuring data integrity and robust error handling for over 1,000 concurrent user requests.

MedTech

Jan 2024 - May 2024

Tech Stack: React, Node.js, Express.js, MongoDB, AWS S3, WebSockets

- Developed a real-time emergency response feature using WebSockets and Node.js to instantly share patient vitals and location with nearby hospitals, designed to reduce critical treatment delays by an estimated 30%.
- Designed and implemented a scalable MongoDB schema for storing comprehensive digital health records, improving data accessibility for authorized medical professionals by 90% and reducing instances of redundant diagnostic tests.
- Built a responsive and intuitive user interface with React to facilitate appointment booking and access to medical history, achieving a 70% increase in platform accessibility for patients in remote areas.

ACHIEVEMENTS

- **Reliance Foundation Scholar:** Awarded scholarship for academic excellence, ranking in the top 5% of over 100k+ applicants.
- **Flipkart GRID 7.0 National Semi-Finalist:** Secured a national semi-finalist position from a pool of 160,000+ applicants; advanced to a stage reached by only the top 0.03% of participants.
- **Health-O-Tech Club:** Directed the end-to-end lifecycle of 40+ club events for 200+ participants, lifting attendance by 30% and achieving a 95% attendee satisfaction score.
- **Google Cloud Skill Badges:** Earned 10+ skill badges, validating expertise in Generative AI, Data Engineering, Cloud Security, Kubernetes, and Cloud Vision API.

CERTIFICATIONS

- **Certified Ethical Hacker (CEH) by EC-Council:** May 2025
- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional:** September 2025
- **Oracle Cloud Infrastructure 2025 Certified DevOps Professional:** September 2025
- **The Bites and Bytes of Computer Networking by Coursera:** December 2023
- **Postman API Fundamentals Student Expert Certification:** Aug 2024
- **Google Cloud & IBM DevOps Certified:** Validated skills in cloud infrastructure and modern SDLC practices.