

# Vaibhav Bhosale

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## EDUCATION

2022 - 2026 **Vishwakarma Institute of Information Technology, Pune**  
*Bachelor of Technology in Electronics and Telecommunication* (GPA: 7.88)

## RELEVANT COURSEWORK

- Data Structures & Algorithms
- Database Management System
- Computer Networks
- Object Oriented Programming
- Software Design and Methodologies
- Compiler Design
- Machine Learning
- Operating System

## TECHNICAL SKILLS

**Languages:** C++, C, Java, JavaScript, Python  
**Technologies/Frameworks:** Node.js, Express.js, React.js, Angular, Tailwind CSS, Next.js, FastAPI, Langchain  
**DevOps & Cloud Tools:** AWS, CI/CD, Docker, Jenkins, Ansible, Git, GitHub Actions, JIRA  
**Databases:** MongoDB, PostgreSQL, MySQL

## WORK EXPERIENCE

• **Indian Air Force (9 BRD), Pune** [🔗](#) Jan 2025 - June 2025

### Project Intern

- Built a **real-time React interface** to display thermal and visual inspection results, integrating **KNN, SVM, and Autoencoder** predictions via **REST APIs** to dynamically render defect overlays on **20+ PCB samples**.
- Deployed React interface on **Jetson Nano and Raspberry Pi** with advanced state management and **image processing**, integrating AI defect overlays into the inspection pipeline and **cutting manual validation time by 30%**

## PROJECTS

- **VirtueHireX: AI Mock Interview Platform** | *Next.js, Gemini, PostgreSQL, Razorpay* [Github](#) [🔗](#) | *Demo* [🔗](#)
  - Integrated **Google Gemini** to generate job-specific interview questions, enable **real-time video/audio** recording, and provide **AI-driven feedback** with actionable improvement suggestions and performance ratings.
  - Implemented robust user authentication and **authorization via Clerk** for secure access. Designed responsive user interface using **Nextjs, TailwindCSS** and **Shadcn**.
  - Optimized data storage and retrieval with **Neon PostgreSQL** and **Drizzle ORM** for scalability and reliability, while integrating **Razorpay** for seamless and secure payment processing.
- **PackNPlan: AI Powered Travel Planner** | *React, Gemini AI, Firebase, TailwindCSS* [Github](#) [🔗](#) | *Demo* [🔗](#)
  - Developed an AI-powered travel planner with **React** and **Firebase**, enabling real-time itinerary sync, secure access, and smooth user experience deployed on **Vercel** with scalable cloud functions.
  - Integrated **Google Gemini API** to generate **real-time, personalized travel** itineraries and budget plans, enabling dynamic trip planning with cultural insights and local recommendations.
- **AutoDock: CI/CD Deployment Engine** | *Node.js, React, Docker, AWS EC2* [Github](#) [🔗](#) | *Demo* [🔗](#)
  - Engineered a production-ready full-stack web app, with a **containerized Node.js** backend and **React** frontend, deployed on **AWS EC2 Linux instance** via **Docker**.
  - Built a robust **CI/CD** pipeline using **GitHub Actions** to automate Docker image builds, push to Docker Hub, and trigger zero-downtime EC2 deployments with **Nginx** reverse proxy, **PM2** process manager, health checks, and rollback-ready multi-stage Docker builds.

## ACHIEVEMENTS

- Solved more than **450+** problems on LeetCode with highest rating of **1665** & **100+** problems on GeeksforGeeks
- Secured a **global rank of 2018 out of 33,951 participants** (top 5.9%) in a LeetCode Weekly Contest.
- Among the top 7 Team in Nirman Hackathon conducted by college TNP

## POSITIONS OF RESPONSIBILITY

• **EESA (Electronic Engineering Student Association)** Sept 2023 – Oct 2024  
*Joint Event Management Head* – Organized department events for VIIT's technical fest Perception.