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**)

TECHNICAL SKILLS

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

RELEVANT COURSEWORK

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

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 rendering, 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** 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 **400+** problems on LeetCode with highest rating of **1459** & **100+** problems on GeeksforGeeks
- Secured a **global rank of 3221 out of 34,372 participants** (top 9.4%) 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.