Prakhar Malviya

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Education

Vellore Institute of Technology, Bhopal Sept 2022 – Present
B.Tech. in Computer Science Engineering CGPA: 8.87

Technical Skills

Programming Languages: Java, C++, Python, JavaScript, TypeScript, SQL, HTML5, CSS.

Technologies/Frameworks: React, Node JS, Express, Next JS, Zod, Tailwind CSS, Ajax.

Developer Tools: Git, GitHub, Docker, Vercel, Firebase, Appwrite, MongoDB, PostgreSQL.

Experience

Software Developer Intern – AptiDude June 2025 – ongoing

- Engineered test question management system using React and TypeScript, implementing dynamic filtering that reduced search time by 60% for 10,000+ aptitude questions.
- Built RESTful APIs with Node.js and Express for authentication and scoring, optimizing PostgreSQL queries to improve performance by 40% during peak usage.
- Created real-time analytics dashboard with React components, reducing manual report generation from 2 hours to 5 minutes.
- Designed responsive UI with Tailwind CSS, increasing user engagement by 35% across exam preparation modules.

Projects

Patient Health Tracker (React, Node.js, Express, MongoDB) GitHub

- Architected full-stack AI-powered health tracking system with 95% data accuracy for mental health support and patient management.
- Implemented user-friendly React interfaces for patient registration, health records, and appointment scheduling, boosting user engagement by 30%.
- Automated patient reminders using node-cron and Nodemailer, resulting in 40% improvement in appointment adherence and timely follow-ups.

Quiz Master Web App (React, Node.js, HTML, CSS, JavaScript) GitHub

- Constructed online quiz portal for VIT Bhopal students, achieving 'A' grade and improving learning efficiency by 40% through interactive quizzes.
- Designed real-time leaderboard function tracking user performance, increasing engagement by 40% and satisfaction scores by 15%.
- Maintained database of 100+ quiz questions across programming topics (C++, Python), boosting student engagement by 25%.

Path Finder (JavaScript, HTML, CSS, Data Structures) GitHub

- Programmed interactive web application using Dijkstra's algorithm to find shortest routes between cities with intuitive visualization.
- Optimized application performance, reducing processing time by 40% and improving user satisfaction by 30%.
- Architected seamless interface for route visualization and selection, significantly enhancing user experience and accessibility.

Achievements

- **Amazon Sambhav Hackathon**, 2024: Launched Eco Sort Python app for automating waste sorting, selected for prototype phase with 30% processing time reduction using Pandas and Streamlit.
- Built interactive Streamlit interface for CSV uploads and real-time waste categorization with visualization capabilities.
- Collaborated with team to optimize app accuracy and usability, demonstrating scalable waste management solutions.

Certifications

- **Microsoft Azure Data Fundamentals (DP-900)**, 2024: Certified in core data concepts, Azure data services, and analytics workloads on Microsoft Azure platform.
- **IBM Generative AI Fundamentals**, 2024: Completed comprehensive certification covering foundation models, prompt engineering, and enterprise AI applications.