

Dev Mangrani

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EDUCATION

Vellore Institute of Technology

Bachelor of Engineering in Computer Science and Engineering

Aug. 2021 – May 2025

CGPA: 8.60

SKILLS SUMMARY

Languages: JavaScript, TypeScript, Java, Python, SQL

Technologies & Tools: Git & GitHub, React.js, Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, MySQL, Vercel, Netlify

Computer Science Fundamentals: Problem Solving, Data Structures and Algorithms, Object Oriented Programming, DBMS

EXPERIENCE

Rodella Aerospace Labs

Aug. 2024 – Jan. 2025

Full Stack Developer

- Built scalable and high-performance web applications using **React.js** and **Next.js frameworks**, ensuring optimal performance and user experience.
- Engineered a **communication software for drones**, enabling seamless interaction with **Ground Control Station (GCS) protocols** for real-time telemetry and command transmission.
- Successfully productized, optimized, and deployed the drone communication software to market through rigorous testing, performance tuning, and iterative refinements.
- Applied best practices in web technologies, including front-end and back-end development and cloud computing.

PROJECTS

JOB SEWA job-sewa.vercel.app

Technology: Next.js, node.js, MongoDB

- Developed a job portal to connect skilled workers with employers, simplifying the hiring process.
- Enabled workers to create profiles, showcase skills, and track job applications in real time.
- Created features for employers to post jobs, filter candidates, and manage applications.
- Addressed market challenges by providing efficient job opportunities for workers and employers.
- Launched a user-friendly platform with secure authentication and scalable deployment.

Cineophile AI cineophile-ai.web.app

Technology: React, Node.js, Firebase

- Developed an AI-powered movie recommendation platform using React 19, Node.js, and Google Gemini AI for smart suggestions.
- Implemented Firebase Authentication, TMDb API, and Redux Toolkit for state management and optimized performance.
- Enabled seamless movie trailer and website viewing within the app, enhancing the user experience without tab switching.

AI Virtual Keyboard github.com/Devmangrani/AI-Virtual-Keyboard

Technology: OpenCV, Python

- Created an AI-powered virtual keyboard controlled via hand gestures using OpenCV and CVZone.
- Enabled real-time gesture tracking and precise keystroke simulation with PyNput.
- Utilized computer vision for image processing, video capture, and live feed display.
- Implemented advanced machine vision, image processing, and real-time techniques for seamless functionality.

CERTIFICATIONS

- MERN Full Stack Completion Certificate.
- Google Cloud Computing Foundation.

ADDITIONAL INFORMATION

- Solved 450+ DSA Problems on Both platform Leetcode And GFG. Earned 30+ Google Cloud badges.
- Led as Club Event Manager, organizing college events that boosted student engagement and participation.
- Strong interpersonal and leadership skills, with a passion for digital transformation in energy and sustainability-driven technology solutions, demonstrated through open-source contributions and stakeholder engagement.
- Successfully completed several **freelance project**, building a market-ready web solution from scratch.