

# 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:** JAVA, JavaScript, HTML, CSS, SQL, Python

**Technologies & Tools:** RESTful API, HTTP, Git & GitHub

- *Front-end* - Next.js, React.js, Tailwind CSS, Swing
- *Backend* - Node.js, Express.js
- *Databases* - MongoDB, MySQL
- *Cloud Services* – Vercel, Netlify, GCP

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

## EXPERIENCE

### Full Stack Internships

Oct. 2023 – Jan. 2024

#### Swift Labs Tech

- Designed and implemented a fully responsive front-end layout for the web application, ensuring seamless usability across mobile devices.
- Optimized database operations with MongoDB to improve system efficiency and scalability.
- Collaborated with a dynamic team of developers to enhance system performance and ensure robust data storage solutions.

## PROJECTS

### JOB SEWA (Live Link)

**Technology:** React.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.

### AI Virtual Keyboard

**Technology:** OpenCV, Python

- Created a virtual keyboard controlled through hand gestures using AI and computer vision technologies.
- Used OpenCV for image processing, video capture, and real-time feed display.
- Integrated CVZone for precise hand detection and gesture tracking.
- Simulated keystrokes with PyNput to enable typing in external applications.
- Implemented advanced machine vision, image processing, and real-time techniques for seamless functionality.

### Airline Management System (GitHub)

**Technology:** Java (Swing), MySQL

- Developed an automated system for passenger management, flight scheduling, reservations, and cancellations.
- Built an intuitive GUI with Java Swing and used MySQL for real-time data synchronization.
- Automated booking, journey details, and record management, reducing manual workload.
- Ensured seamless front-end and back-end integration, improving data integrity.
- Delivered a scalable solution for efficient airline operations.

## CERTIFICATIONS

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

## ADDITIONAL INFORMATION

- Solved 400+ DSA Problems on Both platform Leetcode And GFG.
- Google Cloud Practitioner 30+ on badges of Google Cloud.
- Led as Club Event Manager, organizing college events that boosted student engagement and participation.
- Enhanced multiple open-source projects through impactful contributions.