Lokaesshwar S

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Education

VIT Bhopal University   **Jul 2022 - Onwards**
Bachelor of Technology in Computer Science and Engineering, specialisation in Health Informatics
CGPA – 8.24

Technical Skills

Programming Languages: Java, Python
Areas of Expertise: React.js, Angular, Express.js, Django, TypeScript, Tailwind CSS, Bootstrap, HTML5, JavaScript, MySQL
Tools/Platforms: Git, GitHub, Vercel, WebRTC, MongoDB, PostgreSQL, Node.js, REST APIs

Experience

Optipack 3d   **Jul 2024 – Sep 2024**
Web Development Intern

- Developed an intuitive front-end for the company's logistics platform using React, ensuring a seamless experience across mobile and desktop screens for container space management.
- Restructured machine learning models to refine 3D packing algorithms, increasing space utilization by 35% and reducing logistics inefficiencies by 25%.
- Expanded from front-end development to gain hands-on experience with Django, integrating both front-end and back-end solutions, reducing system downtime by 40% and enhancing operational efficiency.

Projects

Medgram   *TypeScript, React, Tailwind CSS, PostgreSQL*   **Mar 2025**
- Designed a unified, student-centric healthcare platform with an advanced emergency appointment scheduling system. Real-time tracking and automated notifications reduced response times by 50%.
- Architected a cloud-based system to streamline medical record handling and leave application workflows. Intuitive design and API integrations cut processing times by 75%.
- Implemented a scalable interface with microservices-based backend logic for institutional health services. Enhanced efficiency by 35% and supported 40% more concurrent users.
- Link: https://github.com/lokaesshwar/medgram

The Rustic Restaurant   *React, MERN stack, HTML, CSS*   **Oct 2024**
- Architected and engineered a full-stack web application using React and MERN stack, featuring online table reservations, detailed menus, and integrated maps. The platform consistently serves an average of 30 daily users with high reliability.
- Achieved a 40% increase in online reservation efficiency through an intuitive, user-centric interface design. Comprehensive features like real-time availability and confirmation workflows increased user satisfaction.
- Implemented secure user authentication with JWT and optimized MongoDB database queries for performance. These improvements resulted in a 30% reduction in page load times, ensuring a seamless experience.
- Link: https://github.com/lokaesshwar/TheRusticRestaurant

MedOps   *React, WebRTC, MongoDB, Node.js*   **Aug 2024**
- Developed a Kanban-based task management system using React to streamline hospital staff workflows. Revised task organization and tracking, reducing daily operational delays by 30%.
- Integrated secure telemedicine functionality with encrypted video calls for remote patient consultations. Improved healthcare accessibility by 25%, enabling seamless virtual appointments.
- Built a digital record-keeping system and self-operating scheduling with React and Node.js. Optimized data handling and appointment workflows, boosting efficiency by 50%.
- Link: https://github.com/lokaesshwar/MedOps-Hospital-management-System.git

Co-curricular

- **Ranked Top 16** in the Zelestra X AWS Challenge, demonstrating **competitive performance in cloud-based solutions**.
- Conceptualized a **Smart Healthcare Platform prototype** for appointment scheduling at IIT Indore's hackathon, earning **3rd place** out of 650+ entries, and refining operational workflows for a local clinic.
- **Secured 2nd runner up** in the Business Ideathon at VIT Bhopal Industry conclave , highlighting **business strategy and ideation aptitude**.