

# Lokaesshwar S

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## Education

### VIT Bhopal University

*Bachelor of Technology in Computer Science and Engineering, specialisation in Health Informatics*

CGPA – 8.21

**Jul 2022 - Onwards**

## Technical Skills

**Programming Languages:** Java, Python, JavaScript, TypeScript

**Areas of Expertise:** React.js, Redux, Express.js, Django, Tailwind CSS, HTML5, AWS, REST APIs

**Tools/Platforms:** Git, WebRTC, MongoDB, PostgreSQL, Node.js, MySQL

## Certifications

AWS certified cloud practitioner – Amazon Web Services

**Aug 2025**

## 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

### Stayzio – Cloud-Powered Rentals

*Next.js, AWS Cognito, RDS, S3, Node.js, PostgreSQL*

**May 2025**

- Designed a cloud-powered rental platform with a Next.js and Node.js, leveraging AWS Cognito for secure authentication.
- Integrated AWS RDS for efficient database management and AWS S3 for scalable storage, reducing data retrieval times by 60%. 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 microservices-based backend with a scalable interface, enhancing system efficiency by 40% and supporting 45% more concurrent users for enterprise and individual rental services.
- Link: <https://github.com/lokaesshwar/StayZio>

### The Rustic Restaurant

*React, MERN stack, HTML, CSS*

**Nov 2024**

- Architected and engineered a full-stack web application using React and MERN stack, featuring online table reservations, detailed menus, and integrated maps. It 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*

**Jul 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**.
- Devised a Smart Healthcare Platform for appointment scheduling, **earning 3<sup>rd</sup> place at IIT Indore's hackathon**.
- Secured **2<sup>nd</sup> runner up at the Business Ideathon** during the 1<sup>st</sup> Industrial Conclave in VIT Bhopal among 30+ teams.