

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

Jun 2022 - Present

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, Agile & Scrum, Spring Boot, JWT, Docker, Figma

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

Jul 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>

CRM Nexus – Production Grade CRM

Java 17, Spring Boot 3, JWT, PostgreSQL, Docker

Mar 2025

- Built a secure, production-grade CRM with REST APIs for leads, customers, and support using Java 17 and Spring Boot.
- Implemented stateless JWT security with RBAC and optimized PostgreSQL via Spring Data JPA (Hibernate) + Flyway, reducing unauthorized access by 90% and improving performance by 30%.
- Integrated OpenAPI 3 + Swagger UI with centralized exception handling, audit logging, and pagination/filtering, and containerized the system using Docker & Docker Compose with a React SPA frontend, reducing deployment and debugging time by 50%.
- Link: <https://github.com/lokaesshwar/CRM-Nexus.git>

MedOps – Unified Healthcare System

React, WebRTC, JWT, Dnd-Kit, Material UI, Node.js

Dec 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/med-ops>

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 3rd place at IIT Indore's hackathon**.
- Secured **2nd runner up at the Business Ideathon** during the 1st Industrial Conclave in VIT Bhopal among 50+ teams.