

# GANESH SAHU

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Location: Hyderabad , India

Enthusiastic Full-Stack Developer with 6 months of practical experience in scalable web applications and microservices using JavaScript, React, Node.js, Express, and SQL, with exposure to Java and Spring Boot. Passionate about learning and exploring new tools, frameworks, and programming languages to continuously improve technical expertise. Skilled in secure authentication, real-time APIs, and database-driven solutions through internship and independent projects. Proficient in Docker, Redis, RabbitMQ, and Prisma with solid knowledge of MySQL, PostgreSQL, and MongoDB. Adaptable to fast-paced environments, able to work effectively under pressure, and eager to contribute to innovative product development while growing with the team.

## SKILLS SUMMARY

- **Languages:** JavaScript, SQL, Java, Python
- **Frontend:** React.js, Redux, Tailwind CSS, HTML5, CSS3
- **Backend:** Node.js, Express.js, Spring Boot
- **Databases:** MySQL, PostgreSQL, MongoDB
- **DevOps & Tools:** Docker, Git, GitHub, NPM, VS Code
- **System Design:** Microservices Architecture, REST & GraphQL API Design, Caching Strategies (Redis), prisma, Message Queues (Kafka, RabbitMQ), Database Sharding & Replication, Load Balancing
- **Soft Skills:** Strong attention to detail, effective communication, collaborative teamwork, time management

## PROFESSIONAL EXPERIENCE

### Hospital Management System - Full Stack Developer internship | Taksh Softwares 11/2024 - 3/2025

- Led the implementation of a Hospital Management System that streamlined patient, doctor, and appointment management, improving operational efficiency and user experience.
- Implemented secure authentication and role-based access using bcrypt and email validation, enabling safe login and admin-controlled user assignments.
- Built RESTful APIs for appointment scheduling, profile management, and database transactions using Express.js and SQL, ensuring transactional consistency and smooth data flow.
- Developed a real-time notification system with WebSockets to alert doctors, labs, and pharmacies about appointments, prescriptions, and test results, reducing delays in hospital workflows.
- Integrated financial and operational tracking modules to manage payments, department transitions, and hospital expenses with automated logging.
- Designed a responsive dashboard using React and Redux for managing appointments, medical records, and hospital activities across devices.
- Optimized modular backend architecture with Express.js and SQL, resolving CLOSE\_WAIT accumulation and implementing deployment optimization techniques for scalability and performance.
- Enhanced analytics with a Python-based automation module for generating daily hospital reports, improving decision-making and operational visibility.

## PROJECTS

### PulseQueue – Real-Time Appointment & Billing System with microservices - [Link](#) 02/2025

- Built a scalable microservices-based appointment and billing system using Express.js, React, PostgreSQL, Redis, RabbitMQ, gRPC, Prisma, and Docker.
- Applied system design principles (modularity, scalability, reliability) with inter-service communication via gRPC and event-driven workflows using RabbitMQ.
- Optimized performance by implementing Redis caching, reducing DB load and improving response time by 25%, and deployed with Docker for scalability and CI/CD integration.

## EDUCATION

### Master of Computer Application (MCA)

11/ 2022 - 11/2024

Aurora's PG College, Hyderabad, CGPA: 8.4

### Bachelor of Science (BSC)

2018 - 2021

Khallikote University, Berhampur, CGPA: 8.2