PATNALA SHYAM RAM

📞 +91 7815802289 ✉ patnalashyamram@gmail.com 🔗 LinkedIn 🔗 Github

EDUCATION

IIT Hyderabad   **2019 - 2023**

Bachelor of Technology in Chemical Engineering

Computer Science Electives: Data Structures and Algorithms (C++), Object-Oriented Programming, Operating Systems, Database Management Systems, System Design, Machine Learning, Network Security

EXPERIENCE

Tek Avinya | themoreai.com   **March 2025 - Present**

Lead Full Stack Engineer | Freelance
- Led a team of 4 to architect and deploy a movie recommendation platform using **Node**, **React**, optimizing **Gemini API** integration with **Redis** caching and request queuing to reduce response times from 2-3 seconds to <500ms while handling 500 requests/minute rate limits..
- Engineered end-to-end **AWS** infrastructure on **EC2** with Nginx reverse proxy, implementing MongoDB-based filtering system for genre/timeline/duration queries, and integrated Razorpay payment gateway with 98%+ email delivery via **Amazon SES**.
- Directed comprehensive manual testing strategy using Jira checklists, covering 50+ edge cases and functional scenarios, ensuring zero critical bugs at launch and delivering production-ready application within 3-month timeline.

Red Hibbert Group   **June 2023 - March 2025**

Full Stack Developer
- Developed and maintained web applications integrating Salesforce Marketing Cloud (SFMC) for real-time campaign tracking, using **React.js** for dynamic front-end interfaces and **Node.js** for scalable back-end APIs, improving response times by 25%.
- Implemented secure authentication systems with **JWT** and **SSO**, leveraging **SFMC** APIs and Node.js, enabling seamless user access across client portals and reducing login-related support tickets by 30%.
- Optimized **PostgreSQL** database queries for a client-facing analytics dashboard, cutting data retrieval times by 20% and enhancing real-time visualization of marketing metrics for 10+ enterprise clients.
- Built a real-time collaboration tool for marketing teams using **Socket.io** and **React.js**, integrated with SFMC to sync campaign data, boosting team productivity by 15% through streamlined communication.
- Enhanced application performance by implementing **Redis** caching for high-traffic SFMC-integrated dashboards, reducing page load times by 35% and supporting 10,000+ monthly active users.
- Contributed to **CI/CD** pipeline improvements using **Jenkins** and **Docker**, automating deployment processes for web applications, reducing release cycles by 40% and minimizing production bugs.

Taiyari Karlo   **May 2022 - July 2022**

Software Developer Intern
- Developed UI components for the Taiyari Karlo mobile app using **React Native**, achieving over 450,000 downloads and 80,000 monthly active users.
- Built AWS Lambda APIs for MongoDB data management and integrated Razorpay, Cashfree, Raygun, JW Player, 99sms, and Shiprocket for payments, error reporting, video streaming, messaging, and shipping.

TECHNICAL SKILLS

- **Languages & Frameworks**: C++, JavaScript (React, Node.js, Express.js), Python (Django), TypeScript, SQL
- **Databases & Tools**: PostgreSQL, MongoDB, MySQL, AWS, Jenkins, Docker, Git, Postman, Jest, Redux, Socket.io, JWT, SSO, Tailwind CSS, Material-UI

PROJECTS

Interactive Social Media Platform | *React, PostgreSQL, Supabase, Tailwind CSS, TypeScript, Jest*   **Link**
- Built a full-stack social media platform with secure GitHub authentication, nested commenting, real-time post creation with image uploads, and a glassmorphism UI using React, PostgreSQL, Supabase, and Tailwind CSS.

AI Writing Assistant | *React, Privy, OpenAI API, Express*   **Link**
- Created an AI-powered writing assistant with grammar correction and rephrasing using React, Express, and OpenAI's API, featuring secure user authentication and Ethereum wallet integration via Privy.

ACHIEVEMENTS

- Achieved Knight badge on Leetcode and solved 600+ questions. (1016 global rank on biweekly contest).
- Recognized as Spotlight Employee for outstanding performance from Sep-Dec 2023