PATNALA SHYAM RAM

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EXPERIENCE

Tek Avinya | themoreai.com   **May 2025 - Present**
Lead Full Stack Engineer

- **Led** a team of 4 to architect and develop a movie recommendation platform using **Node.js** and **React**, optimizing **Gemini API** integration with **Redis** caching and request queuing, reducing response times from 2-3 seconds to around 500ms under a sustained load of 500 requests per minute.
- Designed and deployed scalable **AWS** infrastructure on **EC2** instances with Nginx reverse proxy, implementing a MongoDB-based filtering system for querying movies by genre, timeline, and duration.
- Integrated **Razorpay** payment gateway for user transactions and set up email notifications via **Amazon SES**, achieving over **98%** email delivery success.
- Implemented a combination of automated unit and integration tests using Jest and Postman alongside manual testing process, covering 50+ edge cases with Jira-managed test plans to ensure application stability and quality before launch.

Hibbert Consulting Pvt Ltd   **September 2024 - March 2025**
Full Stack Developer

- Developed end-end full stack web applications for the marketing team at Red Hibbert Group, using **React.js** on the front end and **Node.js** with Express for the backend APIs.
- Designed and implemented secure authentication features using **JWT** and Single Sign-On (SSO), which helped reduce login-related support requests by about **30%** and made it easier for users to switch between portals.
- Improved database queries and data organization in **PostgreSQL** to speed up how analytics data was fetched and displayed.
- Added real-time notifications using **Socket.io** to help the marketing teams collaborate more effectively by providing instant updates on tasks and campaigns.
- Participated in team code reviews, wrote documentation, and joined regular sprint meetings to maintain code quality.
- Gained hands-on experience with deployment processes using **Jenkins** and **Docker** under the supervision of senior engineers. Mostly focused on preparing applications for release and fixing minor deployment issues rather than building deployment pipelines from the ground up.

TECHNICAL SKILLS

- **Languages & Frameworks**: C++, JavaScript (React, Node.js, Express.js), Python (Django), TypeScript, SQL
- **Databases & Tools**: PostgreSQL, MongoDB, MySQL, AWS (EC2, SES), Jenkins, Docker, Git, Postman, Jest, Redux, Socket.io, JWT, SSO, Tailwind CSS, Material-UI
- **Other**: API Integration, Payment Gateway (Razorpay), CI/CD Pipelines, Manual & Automated Testing, Agile/Scrum Methodologies

EDUCATION

IIT Hyderabad   **2024**
Bachelor of Technology in Chemical Engineering

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

PROJECTS

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.

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.

ACHIEVEMENTS

- Architected and successfully launched the MoreAI movie recommendation platform on time with zero major bugs.
- Achieved Knight badge on Leetcode and solved 600+ questions. (1016 global rank on biweekly contest).