

CHERUPALLI GANESH

MERN Stack Developer

B.Tech, Computer Science Engineering,

Annamacharya Institute of Technology, Hyderabad

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PROFESSIONAL SUMMARY

Entry-level MERN Stack Developer with hands-on experience building scalable full-stack applications using MongoDB, Express.js, React.js, and Node.js. Proficient in RESTful API development, real-time features with WebSockets, and modern state management (Redux Toolkit, Zustand). Proven ability to deliver high-performance applications with optimized database queries and 100% Lighthouse scores. Currently focused on advanced React patterns, performance optimization, and modern deployment strategies.

TECHNICAL SKILLS

- Programming languages:** JavaScript (ES6+)
- Frontend Development:** React.js, Redux Toolkit, Zustand, TanStack Query, HTML5, CSS3, Tailwind CSS, Axios, Responsive Design
- Backend Development:** Node.js, Express.js, RESTful API Development, Authentication and Authorization, WebSocket.
- Databases:** MySQL and MongoDB(Schema Design, Indexing))
- Cloud and Deployment:** Firebase (Authentication, Hosting), Cloudflare (Deployment, CDN), Vercel, Render, MongoDB Atlas, Netlify
- Core Concepts:** Data Structures and Algorithms, OOP Principles, System Design
- Version Control Tools:** Git, GitHub, Vite

PROFESSIONAL EXPERIENCE

Independent Full-Stack Developer

Jan 2024 - Present

Mern Stack Development

- Developed 3+ production-ready applications with real-time communication, streaming platforms, and AI integration.
- Mastered advanced React patterns including custom hooks, performance optimization techniques (lazy loading, code splitting), and state management solutions (Redux Toolkit, Zustand, TanStack Query)
- Implemented secure authentication systems using JWT with HTTP-only cookies and Firebase Auth.
- Achieved consistent Lighthouse scores of 90-100% across Performance, Best Practices, and SEO through code optimization, lazy loading, and semantic HTML.
- Deployed scalable applications on modern cloud platforms (Vercel, Render, Cloudflare, Netlify)

Frontend Development Intern, TLF TalentForge

Apr - Jul 2025

Education, Learning Platform

- Developed dynamic, responsive web pages using modern frontend technologies to improve UI/UX and application usability.
- Collaborated with designers and backend developers to integrate RESTful APIs, enhance UI features, and improve overall product quality.
- Optimized page performance, reduced load times by 30% through code refactoring, lazy loading, bundle optimizations and resolved bugs through debugging.
- Contributed to scalable front-end architecture while following best practices, code reviews and version control (Git)

TECHNICAL PROJECTS

Sandeshan - Real-Time Chat Application

Jan 2026

Tech Stack: React.js, Node.js, Express.js, MongoDB, WebSocket, JWT, Redux Toolkit, TanStack Query

Github | Live

- Built a full-stack MERN application with real-time messaging using WebSocket, enabling secure and instant communication for users.
- Designed and implemented RESTful APIs using Express.js following MVC architecture, enabling secure CRUD operations with JWT-based authentication, middleware validation, and centralized error handling.
- Designed MongoDB database schema with optimized queries and indexing, reducing response time by 40%
- Managed global state with Redux Toolkit and optimized server data handling using TanStack Query for efficient caching.
- Achieved Lighthouse scores of 100% Performance, 100% Best Practices, and 90% SEO, deployed on Vercel, Render, and MongoDB Atlas.

HyperFlix - Movie Streaming Website

Tech Stack: React.js, Redux Toolkit, REST API, Firebase and Cloudflare

Nov 2025

[Github](#) | [Live](#)

- Developed a responsive movie streaming platform with dynamic content listings, real-time search and API integration.
- Implemented Firebase authentication, Formik form validations, multi-language support, and custom Hooks to optimize API calls.
- Deployed on Cloudflare achieving 96% performance, 95% accessibility, and 100% SEO scores through lazy loading and semantic HTML.

GO-CHAT-AI - AI-Powered Chat Application

Tech Stack: React.js, Zustand, Javascript(ES6), Gemini API

Mar 2025

[Github](#) | [Live](#)

- Developed a single-page AI chat application using React.js and Vite, integrating the Gemini API for real-time conversational responses.
- Implemented global state management with Zustand to support live streaming responses and optimized UI rendering performance.
- Designed a fully responsive and accessible user interface, following SEO and web performance best practices.
- Integrated form validation using Formik and deployed the application on Netlify for scalable, production-ready delivery.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering

Annamacharya Institute of Technology, Hyderabad / 2019 – 2023

Intermediate (MPC)

TSBIE Board / 2017 – 2019 / 82.9%

Secondary School Certificate (SSC)

SSC Board / 2017 / GPA: 7.3