

JADAGALA ARAVIND

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Professional Summary

Frontend-focused Software Engineer with strong full-stack expertise, specializing in building secure, scalable, and high performance user interfaces using React and Next.js. Experienced in designing identity-aware applications, implementing authentication flows (JWT, OAuth), and optimizing UX, accessibility, and performance at scale. Proven ability to deliver end-to-end features across frontend and backend systems, with a solid foundation in system design and distributed architectures.

PROJECTS

TICBOOK | Next.js, Tailwind CSS, Node.js, MongoDB

- Architected and developed a full-stack event platform with role-based identity workflows (organizer vs attendee), simulating real-world IAM patterns
- Built high-performance, responsive UI components in Next.js with focus on accessibility and seamless user flows
- Designed secure authentication and authorization pipelines using JWT and RBAC
- Engineered end-to-end booking workflow, including payment simulation and QR-based ticket lifecycle
- Optimized frontend rendering using component reuse, state management, and API caching strategies.

Real-Time Collaborative Whiteboard | WebRTC, PWA, JavaScript

- Designed a low-latency real-time frontend experience using WebRTC data channels
- Built a PWA with offline-first UX, ensuring reliability under network variability
- Optimized rendering and synchronization for concurrent users, focusing on scalability and responsiveness

Full-Stack Note-App | MERN Stack (MongoDB, Express, React, Node.js), JWT

- Developed secure frontend workflows for OTP-based authentication and session lifecycle management
- Integrated REST APIs with robust error handling, state synchronization, and user feedback mechanisms
- Improved UX reliability through validated inputs, secure session handling, and logout consistency

TECHNICAL SKILLS

Languages: JavaScript, TypeScript (add this), Python, SQL

Frontend: React.js, Next.js, Redux, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Express.js

Databases: MongoDB, MySQL

Concepts:

- Authentication & Authorization (JWT, OAuth, RBAC)
- System Design & Distributed Systems
- REST APIs & API Design
- Performance Optimization & Caching
- Accessibility (WCAG basics)
- Competitive Programming (200+ LeetCode)

Tools: Git, GitHub, Postman, WebRTC

Profiles: 🌐 [LinkedIn](#) | 💻 [GitHub](#) | 🚀 [LeetCode](#)

EDUCATION

Vignan Institute of Technology and Science - affiliated to JNTUH | Hyderabad, India

- B.Tech in Computer Science and Engineering | Sep 2023 – Jul 2026 | CGPA: 8.0/10

Government Polytechnic, Masab Tank | Hyderabad, India

- Diploma: Mechanical Engineering | Oct 2020 – Apr 2023 | CGPA: 9.70/10

Zilla Parishad High School, Shanigaram | Telangana, India

- Secondary School Certificate | March 2020 | CGPA: 10/10

ADDITIONAL INFORMATION

Languages: English (Professional), Telugu (Native), Hindi (Conversational)

Core Interests: Full-Stack Development, Artificial Intelligence & Machine Learning, Scalable System Design, Backend Architecture

Hobbies: Competitive Programming, Solving Logical Puzzles, Exploring Emerging Web Technologies