

AJEY N

Senior Frontend Developer | React JS | Nextjs | MERN Stack

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Professional Summary

Results-driven Senior Frontend Developer with **4.5 years of experience** in React js ecosystem. Published NPM package author known for creating high-performance, scalable web applications. Demonstrated expertise in application modernization, state management solutions, and performance optimization. Strong track record of leading technical initiatives and delivering complex projects for enterprise clients.

Technical Skills

- **Frontend Development:** React.js, Next.js 14, JavaScript (ES6+), HTML5, CSS3, Modern React Patterns
 - **State Management:** Zustand, Context API, Custom Hooks Development, Global State Solutions
 - **Backend & Database:** Node.js, Express.js, MongoDB, RESTful APIs.
 - **Build & Performance:** Webpack, Vite, Code Splitting, Bundle Optimization, Performance Monitoring
 - **Development Tools:** Git, NPM Package Development, Version Control
 - **Testing & Quality:** Jest, React Testing Library, Unit Testing
 - **UI/UX:** Material-UI, Antd, ShadCN, TailwindCSS, Responsive Design, Cross-browser Compatibility, Modern UI Patterns
 - **Additional:** Socket.IO for Real-time Applications, Firebase, Authentication Systems, Web Scraping, Payment Gateways, Google Analytics, Google Search Console, SEO Optimization.
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Professional Experience

Senior Frontend Developer | Grid, Bangalore

February 2024 - Present

- Spearheaded a comprehensive frontend modernization initiative, successfully migrating the main codebase from Create React App to Vite while upgrading Node.js from version 14 to 21, resulting in improved build times and developer experience
- Optimized application performance by removing 23 libraries and implementing custom solutions to replace them, significantly reducing bundle size and improving load times, upgraded other packages and made corresponding code modifications.
- Led the architectural transformation by converting 48 class components to functional components,

implementing modern React patterns and hooks for better code maintainability

- Developed automation scripts to facilitate the migration of 1700+ JavaScript files, ensuring consistent code quality and reducing manual effort
- Completely rewrote the worksheet data entry module, implementing efficient state management and optimized rendering patterns for enhanced user experience
- Mentored junior developers in modern React practices and performance optimization techniques

Senior Developer | TheMathCompany, Bangalore

August 2020 - January 2024

- Architected and developed enterprise-scale R&D applications for Fortune 500 CPG companies, focusing on scalability and performance
- Led a cross-functional team in developing a universal A/B testing platform for a major beverage company, enabling data-driven decision making across their digital products
- Engineered interactive dashboards using PlotlyJS and AMCharts, implementing advanced filtering capabilities and data visualization
- Developed a high-performance web scraping tool using Node.js and automated workflows, reducing the sales team's data gathering process from several days to minutes
- Directly managed client relationships and technical requirements, presenting solutions and delivering regular progress updates to stakeholders
- Implemented performance optimization strategies resulting in 40% improvement in application load times

FCRC, Jain University Bangalore

March 2017 – Feb 2020

Research and development and commercialization of horizontal clean continuous combustion devices for solid fuels.

P3 VOITH Aerospace , Bangalore — CAE Engineer

JULY 2010 – APRIL 2012

Experience in CAE modeling of aerospace structures like aircraft wing ribs and spars as well as automobile structures involving various mesh types and sizes

Notable Projects & Open Source Contributions

useDbState (NPM Package with 150+ monthly downloads)

<https://www.npmjs.com/package/use-db-state>

- Developed and published a production-ready React hook that revolutionizes state management by combining the simplicity of useState with IndexedDB persistence
- Implemented advanced features including:
 - Efficient global state management with automatic synchronization

- Smart caching system with configurable persistence strategies
- Optimized performance through debounced writes and queued operations
- Comprehensive error handling and recovery mechanisms
- Extensive documentation
- Actively maintained with regular updates and community engagement

Full Stack Applications

- **Rupee For Humanity (NGO Platform)** <https://www.rupeeforhumanity.org/>
 - Built full-stack MERN application with Firebase authentication and PhonePe payment integration
 - Implemented comprehensive blog system with data caching with SWR for optimal performance
 - Integrated email verification, donation notifications, and volunteer management systems
 - Enhanced SEO and analytics implementation resulting in improved organic traffic
 - **Tambola Online Game** (500+ monthly users) <https://tambolaonline.vercel.app/>
 - Developed real-time multiplayer game using MERN stack and Socket.IO
 - Implemented features like private rooms, random ticket generation, and real-time game state management
 - Created responsive UI with real-time updates for player scores and game progress
 - Successfully handled concurrent user sessions and game state synchronization
 - **E-commerce Platform (Next.js)**
 - Developing modern e-commerce solution using Next.js 14 with App Router
 - MongoDB Atlas for Database and AppWrite for Authentication and storage.
 - Focused on performance optimization and SEO best practices
 - **Keyword Research Tool**(30k+ monthly users) <https://www.thebubbletrends.com/>
 - Built Node.js application then migrated recently to Next.js 14 serving 30k+ monthly users globally
 - Created AI Image generator tool with HuggingFace API for free Image generation.
 - Implemented persistent storage of generated images using IndexedDB in the browser.
 - Developed automated web scraping system using Puppeteer
 - Maintained high performance while handling large concurrent user base
 - **Many More Projects:** Please visit my [GitHub](#) for additional projects and contributions
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Education

- MS by Research | Indian Institute of Technology Madras - 2012-2016
- B.E. Mechanical | PES Institute of Technology, Bangalore - 2006-2010

Open Source Contributions

- **NPM Packages:** Published and maintain use-db-state and cra-template-context-mui-axios-hooks
- Active contributor to React ecosystem and developing solutions.