Nithin Sudheer Narayanapuram
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SKILLS

Full-Stack Development: Python**,** JavaScript, MERN Stack (MongoDB, Express.js, React, Next.js, Node.js)

• **Backend and Database Management:** MongoDB (Aggregation, Indexing, Geo-fencing), SQL (MySQL, PostgreSQL), API Development, Integrations with Third-party Services (Razorpay, GST & Document Verification APIs).

• **Frontend Development:** React.js, Next.js (Server-Side Rendering, API Optimization), and Responsive UI Design.

• **Cloud and Deployment:** AWS (S3, EC2), Firebase (Real-Time Notifications), and Application Deployment and Optimization.

• **Geospatial Technologies:** Integration with Google Maps API and Location-Based Services.

• **Performance Optimization:** Improving Query Efficiency, Enhancing API Performance (Conditional Responses, Minimizing API Calls), and Building Scalable Architectures.

• **Unit Testing and Debugging:** API Testing, Code Optimization, and Debugging for Performance Improvements.

• **Soft Skills:** Cross-functional collaboration, Analyzing and Translating Business Requirements, and Mentoring and Supporting Peers' Development.

EXPERIENCE:

Software Engineer [MERN Stack Developer], CodeFacts   **May 2024 – Present**

• Designed and developed scalable web applications using the MERN stack, optimizing performance and reducing client-side execution time through Next.js server-side rendering. Spearheaded the end-to-end development of Techmate, managing frontend, backend, deployment, and API integrations independently.

• Implemented an AI-driven approach to streamline complex workflows, leveraging automated data validation via third-party APIs for document verification and GST validation, reducing manual processing time by 30% and improving data accuracy.

• Optimized transaction and data retrieval flows, integrating Razorpay for seamless payments and utilizing MongoDB aggregation, indexing, and geo-fencing to enhance database efficiency, reducing query execution time by 60%.

• Engineered real-time communication systems, incorporating Firebase notifications to ensure 70% faster message delivery, enhancing user engagement.

• Integrated Google Maps API to enable precise geolocation services, enhancing the accuracy of location-based queries for Techmate and First House.

• Led the development of a customized Admin Panel, reducing operational workload by 50% through streamlined administrative controls and automation.

• Deployed and maintained applications on AWS, ensuring 99.9% uptime and leveraging S3 for secure file storage.

• Collaborated with teams in previous projects like First House, contributing to API integration and complex React.js implementations while mentoring peers in advanced React concepts like hooks and promises.

PROJECTS

Techmate Services |Solo Project Lead (Next.js, Node.js, MongoDB, AWS)

• Independently architected and delivered a complex web platform, overseeing the entire development lifecycle from requirement gathering to deployment, achieving a 40% increase in application performance and reducing page load times by 35% through optimized server-side rendering with Next.js.

• Achieved 100/100 Lighthouse scores in Performance, SEO, and Best Practices, enhancing visibility and user experience across all pages, driving a 50% increase in organic search traffic.

• Designed and implemented business-critical modules, including subscription billing and refer-and-earn systems, which contributed to a 20% increase in customer retention and 15% growth in revenue within the first quarter post-launch.

• Collaborated with the mobile development team, ensuring consistent backend logic and achieving 100% feature parity between web and mobile platforms, improving cross-platform user engagement by 25%.

EDUCATION

Computer Science and Engineering, Anurag Engineering College   **Nov 2020 – May 2024**