ADITHYAN M S

Project Delivery Specialist — React & TypeScript Developer

+91 7012489987 — adithyanms175@gmail.com — GitHub: AdithyanMS175 — Portfolio

WORK AUTHORIZATION

Indian citizen, currently based in Kerala, India. Willing to relocate to the United States. Open to discussing work authorization pathways and security clearance processes for U.S. government projects.

TECHNICAL SKILLS

Frontend Development: React.js (1.5 years), TypeScript, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

Performance & Optimization: Code-level optimization, Data layer performance tuning, Database query optimization, Caching strategies

Backend & Data: Node.js, Express.js, MongoDB, PostgreSQL, RESTful APIs, Data platforms, Analytics integration

Version Control & Tools: GitHub (1.5 years), Git workflows, CI/CD pipelines, Vercel, Netlify, Postman

AI & Emerging Tech: GenAI integration, AI-powered applications, AI platforms, Claude AI, Machine learning APIs

Engineering Practices: Code reviews, Documentation, Mentoring, Engineering best practices, Problem-solving, Performance profiling

WORK EXPERIENCE

MERN Stack Development Intern *Luminar Technolab, Ernakulam*   *Aug 2024 – Present*

- Identify and develop solutions to performance issues at both code and data layer, optimizing React components and MongoDB queries for 500+ users
- Mentor junior engineers through code reviews, pair programming sessions, and technical guidance on React, TypeScript, and engineering best practices
- Define, document, and advocate for engineering best practices including clean code standards, component reusability, and performance optimization patterns
- Optimize application performance through code-level improvements (memoization, lazy loading) and data layer tuning (query optimization, indexing)
- Collaborate with team using GitHub workflows, conducting peer reviews, and maintaining comprehensive technical documentation for all projects
- Develop React and TypeScript applications with focus on scalability, maintainability, and adherence to industry best practices

MERN Stack Developer Intern *Progressive Software Solutions & Training, Ernakulam* *Aug 2024 – Mar 2025*

- Independently developed full-stack applications using React, TypeScript, and Node.js, identifying and resolving performance bottlenecks at code and data layers
- Mentored peer developers through code reviews, technical documentation, and knowledge sharing sessions on React best practices and TypeScript patterns
- Defined and implemented engineering best practices for component architecture, state management, API design, and database schema optimization
- Utilized GitHub for version control, pull request reviews, and collaborative development workflows across distributed team
- Documented system architecture, API specifications, and development guidelines to ensure code quality and knowledge transfer

PROJECTS

Dynamic Website Builder (React / TypeScript / MERN Stack)

- Architected high-performance no-code platform using React, TypeScript, and Next.js, identifying and resolving performance issues through code optimization
- Optimized data layer performance by implementing efficient MongoDB indexing and query patterns, reducing database response time by 40%
- Defined and documented engineering best practices for 100+ reusable components, establishing code quality standards and TypeScript typing conventions
- Mentored team members on React performance optimization, TypeScript best practices, and component design patterns through comprehensive documentation
- Implemented performance monitoring and profiling to identify bottlenecks at code level, optimizing rendering performance for large JSON datasets
- Maintained GitHub repository with detailed documentation, PR templates, and code review guidelines following industry best practices

TravelDude AI Platform (React / TypeScript / PostgreSQL / Node.js)

- Developed GenAI-powered travel planning platform using React and TypeScript, integrating AI services for intelligent itinerary generation and recommendations
- Identified and resolved critical performance issues at data layer, optimizing PostgreSQL queries and reducing API latency by 50% through query tuning and caching
- Implemented engineering best practices for AI integration including error handling, fallback strategies, and performance optimization for AI API calls
- Documented GenAI integration patterns, API specifications, and performance optimization strategies for future AI platform development
- Utilized GitHub for version control and collaboration, conducting code reviews to ensure adherence to TypeScript and React best practices
- Mentored peers on AI platform integration techniques, performance optimization strategies, and data layer best practices through pair programming

Bookstore Marketplace (React / TypeScript / MERN Stack)

- Built scalable e-commerce platform using React, TypeScript, and Node.js with focus on code quality, performance optimization, and engineering best practices
- Optimized both code-level performance (React component rendering, bundle size) and data layer performance (MongoDB aggregation pipelines, indexing)
- Defined and documented engineering standards for authentication patterns, API design, error handling, and TypeScript type safety
- Conducted code reviews and mentored team members on React performance patterns, TypeScript advanced features, and MongoDB optimization techniques
- Maintained comprehensive technical documentation on GitHub including architecture decisions, API specifications, and deployment procedures
- Implemented analytics integration for tracking user behavior and platform performance metrics to inform data-driven optimization decisions

EDUCATION

Bachelor of Computer Application   *Graduated: March 2025*
St. Mary's College of Commerce and Management Studies, Ernakulam, Kerala
Relevant Coursework: Data Structures, Database Management, Software Engineering, Web Technologies, Performance Optimization

TECHNICAL INTERESTS & PROJECTS

Homelab & Continuous Learning:

- Maintain active learning environment exploring performance optimization techniques, database tuning, and system architecture patterns
- Experiment with AI platforms, GenAI services, and emerging frontend technologies to stay current

with industry innovations

- Practice engineering best practices through personal projects, code reviews, and contribution to open-source initiatives on GitHub
- Study government and public sector technology challenges including data security, scalability, and performance for large-scale systems

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

MERN Stack Development Certification *Aug 2024 – Mar 2025*

Progressive Software Solutions & Training, Ernakulam

Intensive training in React, TypeScript, Node.js, performance optimization, engineering best practices, code reviews, mentoring, and professional software development workflows

Advanced Frontend Development Program *Aug 2024 – Present*

Luminar Technolab, Ernakulam

Ongoing specialization in React performance optimization, TypeScript advanced patterns, data layer tuning, GenAI integration, mentoring practices, and engineering leadership