

MARIMUTHU RAJA

Full Stack Engineer

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Summary

Full Stack Engineer with 5+ years specializing in AI-powered applications and scalable web/mobile platforms. Expert in integrating LLMs (OpenAI, Langchain) with production systems, combining React/Next.js frontends with Node.js/Django backends. Proven track record of optimizing performance (40% improvement), reducing costs (25%), and leading end-to-end development from architecture to deployment on AWS/Azure.

Core Skills

Languages: Typescript, Python, JavaScript

AI & LLM: Langchain, Langgraph, Prompt Engineering, RAG

Frontend: React.js, Next.js, React Native, Tailwindcss

Backend: Node.js, Express.js Django, REST APIs

Databases: MongoDB, PostgreSQL, MySQL, Firestore

Cloud & DevOps: AWS, Azure, Docker, CI/CD Pipelines

Testing: Cypress, Selenium Python, Jest, Mocha

Tools: Git, Postman, Nginx

Professional Experience

Full Stack Engineer

Baboolsoft | Feb 2024 – Present

- Improved application deployment efficiency by 30% by optimizing CI/CD pipelines
- Designed and maintained scalable frontend and backend systems using React, Node.js, and AWS
- Collaborated with cross-functional teams to deliver high-quality, production-ready features

Assistant Systems Engineer

Tata Consultancy Services (TCS) | Mar 2022 – Jan 2024

- Reduced server and infrastructure costs by 25% through Azure architecture optimization
- Built and maintained enterprise applications with strong focus on performance and reliability
- Worked closely with stakeholders across development, QA, and DevOps teams

Full Stack Developer

Baboolsoft | Jun 2021 – Feb 2022

- Boosted application performance by 40% using React.js and Next.js
- Developed REST APIs and frontend components with a focus on maintainability
- Contributed to system design and deployment processes

Full Stack Developer

Digisailor | Oct 2020 – Jun 2021

- Developed responsive web applications and backend services
- Improved UI/UX and optimized API response times
- Participated in end-to-end development lifecycle

Key Projects

Ziarah AI – AI-Powered Travel Platform

<https://ziarah.ai>

- Led the end-to-end development, architecting scalable backend services and built a responsive NextJS/Tailwind frontend.
- Deployed and managed the platform on Azure Kubernetes Service (AKS) with CI/CD pipelines of dev and prod environments, ensuring scalability and reliability.
- Integrated secure payments, third-party travel APIs, and real-time booking workflows, optimizing performance and user experience.
- Mentored developers, enforced best practices, and collaborated with product, design, and AI teams to align features with business goals

GoPrepared AI – AI Mock Interview Platform

<https://goprepared.ai>

- Led the end-to-end development, architecting scalable backend services.
- Developed the frontend using Next.js, React.js, Tailwind CSS, and TypeScript.
- Integrated OpenAI APIs for quiz generation and AI-based analysis.
- Set up Stripe payments for secure transactions and subscriptions.
- Managed API integrations for AI and quiz features.
- Deployed the application on AWS and Vercel with performance optimization.

MY5 App – Personal & Executive Growth Mobile App

App Store: <https://apps.apple.com/us/app/my-5-track-reflect-and-grow/id6742683367>

- Led the end-to-end development, architecting scalable backend services and built Mobile Apps in React Native.
- Developed the My5 App using React Native, focusing on creating a smooth and responsive cross-platform experience.
- Built highly scalable REST APIs with Express Js.
- Implemented Points and Reward system and gamification.
- Worked on performance enhancements, improving app load time, navigation speed, and memory usage.
- Optimized app performance and handled testing, debugging, and store deployments (Play Store & App Store).

Education

Bachelor of Engineering (Computer Science & Engineering)

St. Mother Theresa Engineering College | 2017 – 2021