Nischal K Shaj

Full Stack Developer

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 GitHub | </> Leetcode

Profile Summary

Dedicated Full-Stack Developer with hands-on experience in creating scalable web applications and a strong foundation in software engineering principles. Passionate about problem-solving, continuously learning, and eager to contribute to a dynamic team in a full-stack or backend role.

Experience

- **Backend Developer at Scita Solutions** *Dec 2024 – Present*
  - Engineered backend APIs in Node.js/Express with PostgreSQL, improving request performance by 30%.
  - Built secure authentication, validation, and error-handling pipelines.
  - Optimized SQL joins and indexes to enhance reporting dashboards.
  - Assisted in deploying backend services to client environments and resolving deployment issues.
  - Coordinated with product and frontend teams for feature delivery and API integration.

Technical Skills

- Languages: TypeScript, JavaScript, Python, C++, Java
- Frontend: React, Next.js, HTML, Redux, Zustand, Tailwind CSS, Bootstrap, EJS, jQuery, CSS
- Backend: Node.js, Express, Nest.js REST API, Clean Archetecture, MVC
- Infrastructure: Docker, CI/CD, NPM, Nginx, PM2, Load Balancing
- Databases: MongoDB, S3 Bucket (AWS), PostgreSQL
- Integrations: Razorpay, Multer, Socket.IO, PayPal, Firebase, JWT, Nodemailer
- Deployment: EC2, GitHub Actions, Render, Vercel
- Computational Skills: Data Structures And Algorithms, System Designs

Projects

Scita ATMS – Advanced Traffic Management System

- Developed a full–scale ATMS platform aligned with **NHAI ATMS 2023 guidelines**, improving highway surveillance, enforcement, and operator response.
- Integrated **ANPR, VIDS, overspeed detection, incident logging, VMS control**.
- Delivered **real-time alerts**, live device monitoring, configurable workflows, enforcement evidence, and analytics dashboards for operational decisions.
- Implemented a reporting system for each functional module, generating downloadable reports and evidence archives using **PDFKit**.
- **Tech: Node.js, Express.js, PostgreSQL, Socket.IO, PM2, PDFKit**

Code Sprint – E-Learning Platform

Frontend GitHub
Backend GitHub

- Built and deployed an end-to-end programming and competitive coding platform with live courses and learning modules.
- Integrated multiple payment gateways, subscription tiers, coding problem levels, remote code execution, and real-time chat using Socket.IO.
- Created an admin dashboard for **user analytics, instructor metrics, question statistics, plagiarism checks,**

and code testing.

- Implemented CI/CD pipelines and containerized deployment on AWS using NGINX and Docker.
- **Tech: Node.js, Express.js, MongoDB, React.js, Next.js, REST API, Nodemailer, S3, Multer, NGINX, AWS, Docker, Socket.IO, GitHub Actions (CI/CD)**

Education

MERN Stack Development   2023 - 2024
Brototype, Trivandrum

B.Sc Cyber Forensic   2020 - 2023
School of Technology and Applied Science, Pathanamthitta, Kerala
CGPA: 7.61