

NIKHIL SETH

Full-Stack Engineer

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Profile Summary

Full-stack engineer with hands-on experience in **React**, **Node.js**, **Express**, REST API development, backend architecture, database modeling, and state management. Skilled in building scalable applications using the **MERN/PERN stack**, optimizing query performance, and deploying production systems through Docker, Linux, Vercel, and CI/CD pipelines. Strong in system design, debugging, and delivering end-to-end features in high-velocity engineering environments.

Tech Stack

React.js • Node.js • Express.js • PostgreSQL • MongoDB • REST APIs • JWT • Docker • GitLab CI/CD • Socket.io

Experience

Software Developer Intern – Officer's Mess Ordering Portal

May 2024 – July 2024

DRDO (Defence Research and Development Organisation)

Visakhapatnam, AP

- Developed and deployed a **Flask + SQL** production system automating event and meal bookings, reducing manual logging by **50%**.
- Designed normalized database schemas and backend logic for dynamic menus, pricing workflows, and role-based access.
- Improved reliability using modular API architecture, structured version control, and iterative testing.
- Containerized the development pipeline using Docker and deployed the platform on **Ubuntu** servers.

Projects

DB-Whisperer — Real-Time Query Optimization Visualizer

2025 – Ongoing

PERN Stack, Socket.io, PostgreSQL, Docker

- Built a real-time SQL performance dashboard with CPU/I/O latency metrics, reducing query debugging time by **40%**.
- Optimized database performance via improved indexing and profiling, increasing backend response speed by **30%**.
- Developed automated deployments using **GitLab CI/CD** and Docker Compose for multi-service orchestration.
- **Links:** 🌐 GitHub — 🌐 Live Demo

AI Research Assistant Platform

2025

MERN Stack, OpenAI API, Semantic Scholar API, MongoDB GridFS

- Developed an AI-powered research workflow system enabling summarization, semantic search, and plagiarism detection.
- Redesigned the document-processing pipeline using GridFS, improving retrieval speed by **35%**.
- Implemented secure JWT authentication, modular backend services, and GPT-based summarization features.
- Reduced manual literature review time for users by **50%**.
- **Links:** 🌐 GitHub — 🌐 Live Demo

Personal Portfolio Website

2024

MERN Stack, React.js, Node.js, Vercel Deployment

- Developed a responsive, API-driven personal portfolio with dynamic project rendering.
- Optimized frontend build pipeline, reducing page load times by **25%**.
- Configured CI workflows via GitHub Actions ensuring consistent builds and zero-downtime deployment.
- **Links:** 🌐 GitHub — 🌐 Live Demo

Technical Skills

Languages: JavaScript (ES6+), Python, C, C++, TypeScript (basic), Ruby (learning)

Frontend: React.js, State Management, Responsive UI

Backend: Node.js, Express.js, REST APIs, Authentication (JWT), Middleware Design

Databases: PostgreSQL, MongoDB, SQL, Query Optimization, Indexing

DevOps & Deployment: Docker, GitLab CI/CD, GitHub Actions, Linux CLI, Vercel Deployment

Tools: Socket.io, WebSockets, API Design, Version Control (Git), DSA