

Nishal Devadiga

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PROFESSIONAL SUMMARY

Results-driven Computer Science graduate and Full-Stack Developer with hands-on experience building scalable web applications using **FastAPI, Node.js, PostgreSQL, Redis, Docker, and CI/CD**. Delivered **performance improvements** (40% faster APIs) and production-ready features; seeking full-stack/backend roles.

SKILLS

- **Languages & Databases:** JavaScript (ES6+), TypeScript, Python, SQL, PostgreSQL, MongoDB, Redis, MySQL.
- **Frontend:** React.js, Next.js, Redux, Tailwind CSS, Material UI, Figma, Client-Side State Management.
- **Backend & Cloud:** Node.js, FastAPI, Express.js, Microservices, AWS (S3, EC2, Lambda), Docker, CI/CD, Nginx.
- **Tools & concepts:** Git, Postman, Agile/Scrum, RBAC, OAuth2, WebSockets, REST API Design, System Architecture.

EDUCATION

Mangalore Institute of Technology & Engineering, India | **Bachelor of Engineering in Computer Science** | 2025 Graduate
Cumulative GPA: **8.4/10.0** | Relevant Coursework: DSA, DBMS, OS

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern | IR Infotech | Feb 2025 - Dec 2025

- **End-to-End Development:** Architected and built a multi-role healthcare platform from scratch, delivering both the scalable Node.js backend and the responsive React and Next.js user interfaces.
- **Admin Dashboard & Analytics:** Developed a comprehensive Admin Dashboard using Next.js. Integrated backend analytics to provide real-time visualization of lab promotions and booking data.
- **Secure Authentication System:** Implemented full-stack Role-Based Access Control (RBAC) using JWT; secured API endpoints and managed conditional UI rendering to isolate features for Admins, Labs, and Users.
- **Booking System & Database:** Designed a normalized MySQL schema and a concurrency-safe booking flow; created the frontend slot-selection interface to ensure accurate, conflict-free appointment scheduling.
- **Third-Party Integrations:** Integrated Razorpay for seamless payment flows and Google Maps API for interactive location tracking of home sample collections and lab routing.
- **Performance Optimization:** Enhanced application performance by 50% through Redis caching on the server and optimized component rendering on the client, ensuring stability under concurrent usage.
- **Automation:** Automated critical workflows (slot generation, subscription renewals) using Cron jobs, reducing manual administrative intervention.

PROJECTS

Sweepzy (Civic Impact Platform) | <https://sweepzy-fe.vercel.app>

- **Full Stack Architecture:** Developed a geospatial civic platform using **Next.js** for the interactive frontend and **FastAPI** for the high-performance backend.
- **Interactive Map & UI:** Built a responsive, gamified UI using **Tailwind CSS**; implemented a dynamic map interface that uses client-side state management to render real-time "litter near me" updates.
- **System Performance:** Designed an event-driven architecture using **Redis Queues** to offload heavy AI verification tasks, preventing main-thread blocking and reducing API latency by 40%.
- **Security & Auth:** Implemented end-to-end Role-Based Access Control (RBAC) with JWT; secured both the API endpoints and the **Next.js client-side routes** (Protected Routes).
- **DevOps & CI/CD:** Deployed a fully containerized pipeline (**Docker, GitHub Actions**) to Fly.io and Vercel, ensuring automated testing and zero-downtime updates.
- **Tech Stack:** Python, FastAPI, Next.js, PostgreSQL (PostGIS), Redis, Docker, Tailwind CSS.