

Nihal T

Full Stack Web Developer

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PROFESSIONAL SUMMARY

Full Stack Web Developer specializing in Python (Django), Django REST Framework, and React.js , Next.js. Experienced in building scalable web applications, Built multiple production-ready projects including learning management and event management systems. Active open-source contributor

SKILLS

Languages: Python, JavaScript, Java, C++, C, TypeScript

Frontend: Next.js, React.js, Redux Toolkit, HTML5, CSS3, SCSS, Tailwind CSS, Axios, Styled Components

Backend: Django, Django REST Framework, REST APIs, Role-Based Access Control, Django ORM

Caching & Databases: PostgreSQL, MySQL, Redis, SupaBase

Tools and Platforms: Git, GitHub, Docker, Postman, Swagger/OpenAPI, CI/CD

Concepts: API Rate Limiting, Redis Caching, Authentication & Authorization, Unit Testing, REST API Design, CRUD, State Management, Responsive Web Design, API Documentation, Integration Testing

PROFESSIONAL EXPERIENCE

Open Source Contribution, Kerala Coders Cafe(Local Food Shop Finder)

May 2026 - Present

⊕ [GitHub Contributions](#)

- Contributed full-stack features including Kerala map navigation, Explore page enhancements, responsive UI, user profiles, and Favorite Shops.
- Developed User Profile operations and Favorite Shops functionality with Django models, serializers, REST API endpoints, permissions, and personalized favorite status indicators.
- Improved backend query performance using select related, reducing unnecessary database queries.
- Integrated backend data with reusable frontend components.

Open Source Contribution, zoxilsi Studio

Jul 2026 - Aug 2026

⊕ [Live Link](#)

- Implemented HSL (Hue, Saturation, Lightness) color interpolation as a new gradient blending mode in a WebGL-based mesh gradient editor.
- Implemented GPU shader logic for HSL→RGB conversion and integrated the new color space into the rendering pipeline and editor UI.
- Contributed to a production-ready open-source project built with Next.js, Three.js, and WebGL ,GLSL.

PROJECTS

MalluTyping – Malayalam Touch Typing Platform · Next.js 15, React 19, TypeScript, Supabase, PostgreSQL, Tailwind CSS, OAUTH

⊕ [Project Link](#)

- Developed and deployed a full-stack Malayalam typing platform using Next.js 15, TypeScript, React 19, and Supabase, with structured lessons for Malayalam characters and Unicode combinations.
- Engineered an interactive 3D virtual keyboard with dynamic InScript key mapping, active-key highlighting,

real-time error feedback, and next-key indicators.

- Built persistent progress tracking for WPM, accuracy, attempts, stars, lesson steps, and stage progression, enabling users to resume lessons across sessions.
- Developed responsive neo-brutalist UI and browser-based mechanical keypress audio feedback using the Web Audio API.

E-Learning Platform · React.js, Django REST Framework, PostgreSQL, Razorpay, JWT

⊕ [Project Link](#)

- Built a full-stack Learning Management System using React.js, Django REST Framework, and PostgreSQL with dedicated Role based access Supported 3 user roles.
- Implemented JWT authentication, OTP email verification, password reset, protected routes, and role-based access control (RBAC).
- Improved backend query performance using select related, reducing unnecessary database queries and implemented pagination, reusable serializers and Built reusable React components.
- Developed 80+ REST APIs covering authentication, course management, assignments, quizzes, certificates,payments, chat, and community features and implemented Razorpay payments

Arts Management System · React.js, Django REST Framework, PostgreSQL, Redis, Talwind.css

⊕ [Project Link](#)

- Developed a full-stack college arts festival management platform using React.js, Django REST Framework, PostgreSQL, and Redis.
- Implemented JWT authentication, RBAC, token refresh, API rate limiting, and secure authorization workflows and role-based dashboards Supported 5 user roles.
- Reduced response latency using Redis caching, reducing database load and response latency.
- Built score management, result publishing, participation tracking, schedule management, media uploads, and API documentation using Swagger/ReDoc.

EDUCATION

MCA, Masters of Computer Application, St. Joseph's College
(Autonomous), Devagiri

Jul 2026 - Present · KOZHIKODE,INDIA

BCA, Bachelor of Computer Application, WMO Imam Gazzali Arts and
Science College

Aug 2023 - Mar 2026 · Wayanad, India

LANGUAGES

English (Fluent), Malayalam (Native), Arabic (B2 (Reading & Writing)