

# GURSHARAN SINGH

Full-Stack Software Engineer • React • Next.js • Node.js • TypeScript

 guru4code.online

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 Remote / India

 Available Immediately

## TECHNICAL SKILLS

- Frontend: React, Next.js (App Router), TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3
- Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, Zod, Python (Automation)
- Databases: MongoDB (Mongoose), PostgreSQL, Database Schema Design, Compound Indexing
- Tools & Workflow: Git, GitHub, Postman, Vercel, Vite, Chrome DevTools, Linux/CLI

## WORK EXPERIENCE

Full-Stack Web Developer — Freelance / Independent Engineering

Jan 2024 – Present

- Engineered and shipped responsive client web apps using **React**, **Next.js**, and **Tailwind CSS**, focusing on fast mobile load times and clean component architecture.
- Developed modular **Node.js & Express** REST APIs with structured endpoints for user onboarding, profile management, and contact submissions.
- Integrated external third-party services including **Stripe Checkout** for secure customer billing and **Nodemailer** for automated transactional notifications.
- Collaborated directly with early-stage business owners to scope technical requirements and delivered working functional MVPs within **24–48 hours** to validate product roadmaps.

Frontend Web Developer — TechSolutions Digital Studio

Jun 2023 – Dec 2023

- Translated Figma and Adobe XD prototypes into clean, responsive React interfaces with strict adherence to design system specifications and mobile-first layouts.
- Managed client-side application state using **React Context API** and custom hooks, eliminating prop-drilling across multi-step user onboarding flows.
- Connected frontend components to backend REST APIs, implementing intuitive skeleton loaders, error boundaries, and form validation to maximize usability.
- Coordinated code versioning, feature branches, and pull request reviews across team members using **Git** and **GitHub**.

## FEATURED ENGINEERING PROJECTS

DineFlow 2.0 — Hospitality OS & KDS [\[JavaScript ES6+, BroadcastChannel, Web Audio API, POS Receipts\]](#) [\[Live\]](#) Full-Stack Platform

[Demo ↗](#) [\[Code ↗\]](#)

- Engineered real-time restaurant OS with dedicated Guest Dining, Kitchen KDS, and Floor POS workspaces synchronized via **BroadcastChannel** with sub-5ms cross-window latency.
- Built pure mathematical Web Audio synthesizer replicating acoustic brass counter bell (1760Hz) with 0ms lag, and generated 80mm dot-matrix thermal tax receipts.

Playify — Music Streaming PWA & Android App [\[PWA, WebRTC PeerJS, MQTT, DES Crypto, Service Worker\]](#) [\[Live\]](#) Media & Systems

[Demo ↗](#) [\[Code ↗\]](#)

- Constructed an offline-first music streaming PWA featuring real-time multi-device playback synchronization (<10ms clock phase-lock via WebRTC DataChannels & MQTT).
- Packaged standalone Android APK (1.5MB) with native MediaSession integration, background playback, and client-side DES audio stream decryption.

InspectFlow — Web Security & Architecture Auditor [\[React 19, TypeScript, Vite, OWASP Heuristics, Sandboxing\]](#) Security Tooling

[\[Live Demo ↗\]](#) [\[Code ↗\]](#)

- Built live OWASP compliance auditor assessing 6 critical security headers (CSP, HSTS, X-Frame-Options) in real time with dynamic scoring and framework patch generators.
- Implemented responsive sandbox simulating iPhone 15, iPad Air, and Desktop viewports with automated tech-stack footprint detection.

## EDUCATION

Bachelor of Computer Applications (BCA) — Computer Science & Information Technology

2021 – 2024

Relevant Coursework: Web Application Architecture, Database Management Systems (RDBMS/SQL), Object-Oriented Programming, Data Structures.