

NIRANJAN MOTAGI

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SUMMARY

Full-stack developer who ships production-grade web and mobile applications — REST API design, JWT auth and role-based access control, relational data modelling, real-time collaboration, and Docker-based deployment across Java/Spring Boot, C#/.NET, Node.js, and React.js.

TECHNICAL SKILLS

Languages: Java, C/C++, Python, C#, JavaScript, TypeScript, Kotlin, SQL

Backend & Frameworks: Spring Boot, Spring Security, .NET, Django, Node.js, Express.js, REST APIs, Hibernate/JPA, Entity Framework

Frontend: React.js, Angular, TypeScript, Tailwind CSS, HTML5, CSS3, Responsive UI Design

Databases: PostgreSQL, MySQL, MongoDB, Redis, Neon (Serverless Postgres)

Cloud & DevOps: Docker, GitHub Actions (CI/CD), GCP, Firebase, Vercel, Render, Git

Concepts: Authentication & Authorization, Database Design, API Integration, Caching, Containerization, Data Structures & Algorithms

EXPERIENCE

MindMatrix — Android Developer Intern

Feb 2026 – May 2026

- Built and shipped a production Android application in Kotlin backed by Firebase, implementing Firebase Authentication for secure sign-in and Realtime Database / Firestore for live cross-session data sync.
- Structured the app in a clean, layered architecture (UI / data / business logic), optimized data reads and rendering for low-end devices, and delivered features iteratively over a four-month internship via a Git feature-branch workflow with code reviews.

PROJECTS

CodeSync AI — Real-Time Collaborative Coding-Interview Platform | *Next.js, Node.js, Socket.IO, Yjs (CRDT), Monaco, MongoDB, Gemini API, Docker*

Live: ai-interview-simulator-sepia.vercel.app/codesync

- Built a CoderPad-style platform where interviewer and candidate edit code together in real time, using a server-authoritative CRDT engine (Yjs) over Socket.IO with a Monaco editor, live presence, and secure sandboxed code execution (CPU / memory / time limits).
- Integrated a Gemini-powered assistant for hints, explanations, and rubric-based evaluation reports; engineered JWT-authenticated REST APIs with room-level role-based access control and an ordered code-snapshot stream enabling git-style interview replay.

AI Interview Platform — AI-Powered Mock Interviews | *Spring Boot, React, PostgreSQL, Redis, Gemini API, Docker*

Live: ai-interview-simulator-sepia.vercel.app

- Built an AI-powered mock-interview platform that runs role-specific interviews, generates adaptive follow-up questions, and returns structured, rubric-based feedback using the Gemini API for question generation and answer evaluation.
- Engineered REST APIs with Spring Boot and Spring Security (JWT, role-based access), modelled data with JPA/Hibernate on PostgreSQL, used Redis for caching and sessions, and shipped a responsive React + TypeScript + Tailwind UI containerized with Docker.

Pharmacy Management Web Application | *C#, .NET, MySQL, Entity Framework*

Live: pharmacy-zeta-mocha.vercel.app

- Developed a pharmacy management platform handling prescription and order workflows, inventory tracking, and admin management with full CRUD across products, stock, and orders.
- Built secure backend APIs in C#/.NET with authentication and server-side validation, and designed indexed MySQL schemas tuned for high-traffic inventory lookups with low-inventory alerts.

ColPat — Color Palette & TailwindCSS Tool | *JavaScript, HTML5, CSS3, Canvas API*

Live: niranjanmotagi.github.io/color-palette

- Built a client-side color toolkit with curated palettes, a gradient generator, a TailwindCSS 50–950 shade-scale generator (v3 config + v4 @theme output), and image-based dominant-color extraction via canvas quantization — no build step or API keys, deployed on GitHub Pages.

Kavya Kanaja — Android Application | *Kotlin, Firebase*

Live: kavya-kanaja-6c987.web.app

- Deployed a live Kotlin Android app on Firebase with Firebase Authentication and Realtime Database for live data sync, used by real users; tuned navigation and data reads for responsiveness.

EDUCATION

Visvesvaraya Technological University

2022 – 2026

B.E. in Computer Science & Engineering | CGPA: 8.1 / 10 | Karnataka, India • Class XII: 72%

CERTIFICATIONS

NPTEL — Programming in Java & DSA in Java • Google Cloud — Generative AI, Vertex AI & Gemini (Skill Boost)