ROMIT TRIVEDI

B.Tech CSE Student | Full-Stack Development, Android & Applied AI

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PROFILE

Third-year Computer Science student building practical web and Android applications while exploring local-first AI. Interested in software engineering internships and hackathons; focuses on useful prototypes, clear architecture, debugging, and privacy-conscious development.

TECHNICAL SKILLS

Languages	Python, Java, Kotlin, JavaScript, TypeScript, SQL, HTML, CSS
Web & mobile	React, Next.js, Tailwind CSS, REST APIs, Jetpack Compose, Room
Data & tools	SQLite, PostgreSQL, MySQL, Prisma, Git/GitHub, Android Studio, Gradle, Vercel
AI & foundations	Ollama, local LLMs, RAG and agentic concepts; ML, DSA, DBMS, OS, networks

FEATURED PROJECTS

LinkPulse - URL Shortener & Click Analytics

Next.js | TypeScript | Prisma | SQLite | Zod | Working prototype

- Built URL shortening with custom aliases, QR code generation, and HTTP 307 redirects through Next.js route handlers.
- Used transactions for click counts and event logging; added per-link analytics tokens, destination validation, HMAC-based IP pseudonymization, and device/referrer summaries.

PANIC - Deadline Enforcer

Kotlin | Jetpack Compose | Room | Working Android prototype

- Built an offline-first academic deadline app with persistent Room storage, risk-based priorities, reminders, and a visual smart planner.
- Iterated on navigation, UI themes, notification flows, and device testing; kept task data local.

PSxRENT - Gaming Console Rental Platform

Next.js | React | TypeScript | Tailwind CSS | In development

- Created reusable discovery and listing UI for a peer-to-peer and shop-based rental marketplace; planned rental, deposit, pricing, and trust workflows with a PostgreSQL/Prisma backend.

NeuroVault + Synapse Active Brain

Python | Ollama | Local LLMs | RAG exploration | In development

- Designed separate knowledge and reasoning layers for a local-first personal memory system; exploring retrieval, agentic workflows, and minimal exposure of private information.

EDUCATION & ACTIVITIES

B.Tech, Computer Science Engineering - Third year

U. V. Patel College of Engineering, Ganpat University | Gujarat, India

Convergence - Quizard: Hackathon winner; built and presented a quiz application.

AutoRed (concept): Explored LLM red-teaming, deterministic evaluation ideas, and MCTS/A* adversarial search.