Kartik Jain

Full-Stack Engineer | Web, Mobile & Backend

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Summary

Full-stack engineer who takes products from database to app store: a cross-platform learning platform on Google Play, an end-to-end-encrypted sharing app, and a live-auction platform used at a ~200-player tournament.

Education & Leadership

B.Tech, Information Technology | *SVKM's NMIMS MPSTME, Mumbai* | **CGPA: 8.34/10.0** Expected Apr 2028

- **Chairperson**, ACM MPSTME (~250 members); ex-Technical Head: Taqneeq, Mumbai MUN, Social Conclave, Sattva.
- Headed Taqneeq's technical department: led the fest-app revamp, including facial-recognition photo discovery.

Experience

VisionRise Technosoft Pvt. Ltd. | *Software Engineer Intern* Apr 2026 – Oct 2026

- Built a white-label learning platform: a Node.js/Express/TypeScript REST API (276 routes, PostgreSQL) and one React Native/Expo codebase for Android, iOS and web, shipped as two Google Play apps (Rise Academy, eGuru).
- Shipped courses, quizzes, assignments, UPI payment verification, push and email notifications and OTA app updates.
- Integrated Zoom live classes (signature-verified webhooks, attendance, recordings) and generated quizzes with Gemini; built JWT authentication with Google Sign-In and role-based access control.
- Developed a government procurement prototype (FastAPI + React) for a client demo and the eguru.app site (Next.js).

R.U.D.R.A Cybersecurity Pvt. Ltd. | *Security Engineer Intern* May 2025 – Jul 2025

- Found 2 high-severity vulnerabilities (Local File Inclusion, broken access control) in a banking client's web portal through manual code review, then wrote custom Nuclei templates to detect them automatically.
- Automated external attack-surface monitoring with BBOT, saving ~$20,000/year of manual reconnaissance.

Freelance | *Backend & Security Engineer* May 2025 – Oct 2026

- Led ransomware incident response for a 16,000+ user platform: restored it from backups and hardened its servers.
- Built the platform behind ELEV8, a ~200-player, 8-team pickleball tournament: player registration and verification, a live auction with a projector board, fixtures, live scoring and standings (Next.js, Supabase Postgres + Realtime), with an offline write queue for unreliable venue Wi-Fi.

Projects

GhostShare | end-to-end-encrypted file sharing | *TypeScript, Next.js, Fastify, PostgreSQL, Redis, Docker* Live

- Zero-knowledge sharing: keys derive in-browser (Argon2id), AES-256-GCM seals the data, 5 MiB chunks upload in parallel to Cloudflare R2 and resume after failures, and an IndexedDB queue keeps it working offline.

Railway Concession System | MPSTME's official portal | *Next.js, PostgreSQL, Drizzle* Live

- Took over and maintain the system ~4,000 students use: migrated it to PostgreSQL, enforced an IST-aware booking window server-side, and built admin tools and automated daily reports for the college office.

conc-qr | QR event access control | *TypeScript, Express, Next.js, PostgreSQL, Docker* Source

- Built QR access control for 500+ delegates: phone-camera scanning, race-free check-ins through a Postgres unique constraint, and role permissions editable live mid-event.

bad-db | storage engine from scratch: custom file format, B-Tree index, compaction, own query language | *Java* Source

Security Research & Awards

- Awarded a **$1,500 bug bounty by Meta** for a privilege-escalation vulnerability in WhatsApp.
- Reported access-control and information-disclosure flaws in Microsoft Intune and Exchange Admin to MSRC; responsibly disclosed a stored XSS on the Mumbai Police website through CERT-In.
- **Won 3 hackathons:** MAL 4 (Paytm, team of 3), chat.win AI Jailbreakathon (global), CodeForge 2026 (team).

Skills

Languages: TypeScript, JavaScript, HTML, CSS, Python, Java, SQL, Go, C++
Frameworks: React, Next.js, React Native (Expo), Tailwind CSS, Node.js, Express, Fastify, FastAPI, Flask
Data & Infra: PostgreSQL, Redis, MongoDB, Supabase, Firebase, Docker, Linux, Git, CI/CD (GitHub Actions), Deployment (Coolify, Vercel)
Concepts: REST APIs, WebSockets (Socket.IO), Authentication (JWT, OAuth 2.0), Data Structures & Algorithms, System Design (HLD/LLD, ADRs), Unit Testing