Kartik Jain

DevOps & Backend Engineer

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Summary

DevOps-minded backend engineer with an offensive-security background: hardened and ran a production server, led ransomware recovery for a 16,000+ user platform, and built self-hosted infrastructure shared by 7+ college committees.

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.
- Mentored web hosting, C and cybersecurity at Programming For Everyone, ACM's record ~500-learner program.

Experience

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

- Provisioned and hardened the company's production Linux server (Ubuntu 24.04 LTS: key-only SSH, firewall, auto security updates); deployed Docker containers and PostgreSQL via Coolify CI/CD.
- Automated backups to Google Cloud Storage and served media through short-lived signed URLs.
- Administered the GitHub org (15 repos) and Google Workspace (35+ accounts), including access and permissions.
- Built the white-label LMS running on it: a Node.js/TypeScript REST API (276 routes, 20 modules) behind two Google Play apps (Rise Academy, eGuru), with over-the-air app updates.

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

- Automated external attack-surface monitoring with BBOT, saving ~$20,000/year of manual reconnaissance.
- Deployed and operated the Sliver C2 framework for purple-team exercises emulating real-world intrusions.
- Found 2 high-severity vulnerabilities (Local File Inclusion, broken access control) in a banking client's web portal, then wrote custom Nuclei templates to detect them automatically.

Freelance | *Backend & Security Engineer* May 2025 – Jun 2025

- Led ransomware incident response for a 16,000+ user platform: restored it from backups and hardened its servers.

Projects

Self-Hosted Infrastructure | ACM MPSTME and 7+ committees | *Coolify, Docker, Mailcow, GitHub Actions* Live

- Built the chapter's Coolify platform and Mailcow mail server (SPF, DKIM, DMARC): an @mpstmeacm.com mailbox for all ~250 members, shared by 7+ college committees; set up the GitHub organization, GitHub Apps and CI/CD.
- Run Discord bots that onboard members and assign channel access by position and department, and a members-only Minecraft server that verifies ACM membership at login.

jkartik.in Pipeline | pull-based deployment | *Docker, GitHub Actions, GHCR, Watchtower, Nginx* Source

- Multi-stage Docker build pushed to GHCR by GitHub Actions with build caching; Watchtower pulls and deploys new images, so CI holds no SSH secrets; Nginx and certbot terminate TLS.

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

- Runs on Docker Compose behind Coolify; Socket.IO scales horizontally through a Redis adapter; includes backup and restore scripts, structured logging (Pino) and error monitoring (Sentry).

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 and automated daily reports.

NeuroTechh | failure and recovery design, first prize at MAL 4 (team of 3) | *idempotent retries, transactional outbox* Source

Security Research & Awards

- Earned a **$1,500 Meta bug bounty**; reported vulnerabilities to Microsoft (MSRC) and the Mumbai Police (CERT-In).

Skills

DevOps: Docker, Docker Compose, Linux (Ubuntu) Server Administration, CI/CD (GitHub Actions), GHCR, Coolify, Nginx, TLS, Backups & Disaster Recovery, Logging (Pino, Sentry), Git
Cloud: Google Cloud Storage, Cloudflare R2, Vercel
Languages & Design: Bash, Python, TypeScript, SQL, Go, System Design (HLD/LLD, ADRs)
Security: Server Hardening, Vulnerability Assessment, Dependency Scanning (SCA), Incident Response, Email (Mailcow, SPF/DKIM/DMARC)