

Lakshay Choudhary

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EXPERIENCE

- **Backend Development Intern**, PrintSaathi Feb 2025 – Apr 2025
 - Migrated from MongoDB to PostgreSQL with Prisma ORM, enforcing strict schema validation.
 - Reduced API latency by 70% through caching hot data and optimizing SQL queries.
 - Built a Redis-backed BullMQ queue that processed over 10,000 async tasks and emails daily.
 - Refactored REST APIs, resulting in a 50% reduction in error rates and a 30% improvement in response times.

CERTIFICATIONS AND EXPERIENCES

- **Azure Administrator Associate (AZ-104)**
Microsoft Certified — Issued: Apr 27, 2025 — Credential ID: DA8FC08EA9CBA32B — [verify](#)
- **Web3 Hackathon Winner**, Block se Block Web3 Hackathon by ICP Hub 2025
Led a team of 4 to develop SoundPrint, a decentralized music streaming platform, selected as the winner among 200+ participants and awarded \$500. — [media](#)
- **Core Team Member**, Google Developer Student Club (GDSC), LPU 2022 – 2024
Organized 5 GDSC WoW events with over 500 attendees; mentored 20+ peers in Web Development and Linux.

PROJECTS

- **Personal Homeserver Infrastructure** — *Proxmox, Infra Management* Mar 2024 - Jan 2025
 - Self-hosted 10+ websites and services on personal Proxmox homeserver, reducing hosting costs by 80%.
 - Implemented secure networking with Cloudflare Tunnel and Cloudflare Access for authentication.
 - Deployed organic search instance with MeiliSearch, and multiple VMs for development environments.
 - Managed containerized applications and services using Docker orchestration.
- **Video Transcoding Pipeline** — *Node.js, Docker, EC2, S3, SQS* — [repo](#) Nov 2024
 - Engineered a cost-efficient transcoding solution on EC2, reducing infrastructure spend by 60% compared to ECS.
 - Leveraged SQS and ECR for job orchestration; designed dynamic FFmpeg presets.
 - Secured uploads with S3 presigned URLs and custom UI integration.
- **NixOS Configuration** — *Nix, GitHub Actions* — [repo](#) Mar 2024 – Present
 - Maintained a reproducible NixOS setup using flakes and Home Manager, reducing system configuration time by 90% through automation.
 - Configured Btrfs + Disko for snapshots and rollback; automated CI on builds.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Bash, Python, C/C++, Nix
- **Web Technologies:** Node.js, Express, Next.js, React, Prisma, BullMQ
- **DevOps:** Docker, GitHub Actions, CI/CD, Linux Administration
- **Cloud:** AWS (EC2, S3, SQS, ECR), Vercel
- **Development Tools:** Linux, SSH, Git, Docker, Kubernetes, Termius, Postman, Vercel, Cloudflare

EDUCATION

- **Lovely Professional University**, Punjab
B.Tech in Computer Science and Engineering
Aug 2022 – May 2026
- **Birla Modern High School**, Jaipur
HSC and SSC
Apr 2022