

Lakshay Choudhary

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EDUCATION

Lovely Professional University <i>Bachelor in Computer Science and Engineering</i>	Phagwara, Punjab Aug 2022 – May 2026
Birla Modern High School <i>SSC</i>	Jaipur, Rajasthan Apr 2022
Birla Modern High School <i>HSC</i>	Jaipur, Rajasthan Apr 2020

EXPERIENCE

Backend Development Intern <i>PrintSaathi</i>	February 2025 – April 2025 <i>LPU, Punjab</i>
<ul style="list-style-type: none">Ported all MongoDB models to PostgreSQL and Prisma for better performance and stricter schema validationReduced backend load and latency by caching frequently fetched itemsDesigned and implemented a BullMQ-based asynchronous job processing system to improve request handling efficiencyImproved email error rate significantly by implementing an email queue using Redis (ValKey) and BullMQRefactored existing API routes, optimizing SQL queries and middleware to reduce response times by 30%	
Google Developer Student Club <i>Lovely Professional University</i>	Jan 2022 – Jun 2024 <i>LPU, Punjab</i>
<ul style="list-style-type: none">Served as DevOps Backend developer in GDSC core team, architecting scalable APIs and microservices for student-led projects and events.Implemented CI/CD pipelines and automated infrastructure provisioning using tools like GitHub Actions and Docker.Managed cloud deployments (e.g., Vercel, AWS) to ensure high availability, fast rollouts, and streamlined dev workflows.	

PROJECTS

Video Transcoding Pipeline <i>Node, Docker, EC2, ECS, S3, SQS</i>	Nov 2024
<ul style="list-style-type: none">Developed a highly efficient and cost-effective video transcoding pipeline leveraging AWS services.Implemented core transcoding functionality using Docker containers running on an EC2 instance, avoiding ECS costs. But provided Complete ECR functionalityIntegrated AWS SQS for message queuing and scheduling of transcoding tasks.Designed a flexible configuration system for setting transcoding parameters such as resolution, codec, and bitrate.Created proper frontend and backend to upload files to s3 using PresignedURLs greatly increasing security.	
NixOS Configuration <i>Nix, dotfiles, Linux, CI/CD, System Administration</i>	Mar 2024 – now
<ul style="list-style-type: none">Maintaining a declarative NixOS setup using flakes for system reproducibility and rollback capabilitiesAutomated system provisioning with home-manager to manage dotfiles and user environmentsConfigured a Btrfs-based filesystem using Disko for efficient snapshots and system rollbacksIntegrated PipeWire for low-latency audio management, optimizing for gaming and media productionImplemented a CI/CD pipeline with GitHub Actions to validate and build Nix configurations automatically	

TECHNICAL SKILLS

Languages: JS/TS, Bash, Nix, Python, C/C++
DB/cache Upcoming Placement Drives: Prisma, Postgres(NeonDB), MongoDB(Atlas), Redis(and ValKey)(Aiven)
Web: Express.js, React.js, Next.js, Tailwind CSS,
Cloud: AWS: EC2, ECR/ECS, S3, CloudFront, Lambda, Azure: VMs, Blob, Functions
Developer Tools: Linux, SSH, Git, Docker, Kubernetes, Termius, Postman, Vercel, Cloudflare