Lakshay Choudhary

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EDUCATION

Lovely Professional University — Phagwara, Punjab
Bachelor in Computer Science and Engineering — *Aug 2022 – May 2026*

Birla Modern High School — Jaipur, Rajasthan
SSC — *Apr 2022*

Birla Modern High School — Jaipur, Rajasthan
HSC — *Apr 2020*

EXPERIENCE

Backend Development Intern — February 2024 – Present
PrintSaathi — *LPU, Punjab*

- Ported all MongoDB models to PostgreSQL and Prisma for better performance and stricter schema validation
- Reduced backend load and latency by caching frequently fetched items
- Designed and implemented a BullMQ-based asynchronous job processing system to improve request handling efficiency
- Improved email error rate significantly by implementing an email queue using Redis (ValKey) and BullMQ
- Refactored existing API routes, optimizing SQL queries and middleware to reduce response times by 30%

Google Developer Student Club — Sep. 2018 –
Southwestern University — *Georgetown, TX*

- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

PROJECTS

Video Transcoding Pipeline | *Node, Docker, EC2, ECR, S3, SQS* — Nov 2024

- 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 functionality
- Integrated 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 | *Nix, dotfiles, Linux, CI/CD, System Administration* — Mar 2024 – now

- Maintaining a declarative NixOS setup using flakes for system reproducibility and rollback capabilities
- Automated system provisioning with home-manager to manage dotfiles and user environments
- Configured a Btrfs-based filesystem using Disko for efficient snapshots and system rollbacks
- Integrated PipeWire for low-latency audio management, optimizing for gaming and media production
- Implemented 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