

Karan Parashar

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Education

Manipal University Jaipur, BTech in Computer Science (Hons. in AIML) | CGPA: 8.26/10 2022 – 2026
Army Public School, Mhow (CBSE) | XII - 89% | X - 90% 2019 – 2021

Experience

DevOps Engineer, HashedIn by Deloitte (hashedin.com), Bengaluru Jan 2026 – Present

- Led a 4-person team to a **1st place** finish during Product Week, architecting a solution driven by **MCP servers**.
- Re-architected a 50+ endpoint **REST API** into 12 **MCP** tools and a pipeline, enabling **agent-driven** tool integration.
- Deployed a 6-service app (**Keycloak**, **Vault**, **Redis**) to **Kubernetes** across dev, staging, prod with **Helm**.

Co-Founder, PixelOS (pixelos.net), Remote Dec 2020 – Present

- Created PixelOS, an AOSP-based Android ROM with **2.9 million+ downloads** and an **11k+ community**.
- Built **CI pipelines** with **GitHub Actions** to automate AOSP builds, signing, and releases for **70+ devices**.
- Automated Python app deployment via **GitHub Actions** and a **self-hosted Docker registry** using **multi-stage builds**.

Backend & DevOps Intern, SameyAI (samey.ai), Remote May 2025 – Dec 2025

- Built **FastAPI WebSocket services** for session management and real-time chat sync on multiple clients.
- Developed a Python **pipeline** with **webhooks** for real-time Google Drive, Dropbox, and OneDrive ingestion.
- Refactored a Python microservice to **improve maintainability** and enable **concurrent multi-session support** per user.

DevOps Intern, Software Development Centre, MUJ (sdcmuj.com), Jaipur Apr 2025 – May 2025

- Containerized **over 10 full-stack applications**; reduced image sizes by **over 90%** using **multi-stage builds**
- Automated CI workflows to build and publish Docker images to a self-hosted registry with **declarative authentication** across **30+ SDC projects**, and built a backend service letting maintainers trigger re-deployments via GitHub PATs.

SDE Intern, Digiboxx (digiboxx.com), Remote Aug 2024 – Sep 2024

- Architected and deployed a **Proof of Concept (PoC)** for a distributed storage architecture on a 4-VM setup.

Projects

- CodeShield (DevSecOps, MCP, Full-Stack)**: Built a VS Code extension bundling a **FastAPI + FastMCP** server and React dashboard that runs security scanners (**Trivy**, **Checkov**, **Kubescape**) in parallel, normalizes findings, and applies **LLM-driven fixes** with human-in-the-loop review. **Tools Used**: *FastAPI, FastMCP, React, SQLite, Docker*
- GitOps Homelab (Kubernetes, ArgoCD, CI/CD)** : Self-hosted a **Kubernetes** cluster on a **Raspberry Pi 5**, managed declaratively via **ArgoCD** (app-of-apps). Projects ship through CI/CD: Docker build, **Trivy** scan, push to **GHCR**, and an image-tag bump that ArgoCD auto-syncs. **Tools Used**: *Kubernetes, ArgoCD, Kustomize, Helm, Traefik, GitHub Actions*
- Legislative Summarization (NLP, ML, Infra)** : Built a legal text summarizer with extractive and abstractive modes. Architected dual-backend setup with Express.js for auth/storage (with JWT) and FastAPI serving a **fine-tuned BART model** on LegalSum. **Tools Used**: *Express.js, Prisma, PostgreSQL, S3, MinIO, BullMQ, FastAPI, Python, Docker*
- ScrapyChat (RAG, Backend)** : Built the entire **FastAPI** backend, a **RAG** pipeline over scraped web content using **LlamaIndex + Qdrant**. **Tools Used**: *FastAPI, LlamaIndex, Qdrant, Redis, Crawl4AI, Ollama, Docker, Kubernetes*
- ScriptScribe - Text Processing Tool (OCR, NLP, Web Development)** : Web app to extract text from images via OCR and generate summaries, with secure user auth. **Tools Used**: *Python, Flask, MongoDB, HTML, CSS, JavaScript, Docker*
- BetterSLCM (Web scraping, Backend)** : A FastAPI wrapper for my college portal. **Tools Used**: *FastAPI, Docker*

Technologies

Languages: Python, JavaScript, Bash | **Frameworks**: FastAPI, FastMCP, Express.js, LlamaIndex

Databases: PostgreSQL, MongoDB, Redis, Qdrant

Tools: Git, Docker, Kubernetes, Helm, ArgoCD, GitHub Actions, Terraform, Trivy, AWS, Azure, GCP, Caddy

Achievements and Extracurricular

- Head of Projects and Research at ACM**: Wrote a paper on *E2E Encryption Research* (Cryptography, Security).
- Achieved **Top 3** in Digiboxx Technologies Hackathon – Jul 2024
- Awarded **Tech Prodigy** for top individual technical performance during the HU Spark program at HashedIn by Deloitte.
- Received **Star Performer** award at Software Development Centre – May 2025
- Received **Dean's List Award** and **Student Excellence Award** – Nov 2025
- Achieved consistent solves of the 3x3 Rubik's Cube in under **20 seconds** and **40 seconds** one-handed.