

DEEPAK BHARATE

DevOps & Platform Engineer | Full-Stack Developer

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SUMMARY

DevOps and platform engineer who designs, ships, and operates production systems end to end — self-hosted Kubernetes (K3s) clusters with ArgoCD GitOps, containerized microservices, and secure multi-tenant SaaS. Comfortable across the stack: Go, TypeScript/Node, and React on the application side; Docker, AWS, CI/CD, secrets management, and infrastructure security on the platform side. Proven track record taking products from requirements to a hardened, deployed MVP, and hardening them against real-world attacks.

TECHNICAL SKILLS

Orchestration & GitOps: Kubernetes, K3s, Helm, ArgoCD, Docker, Docker Compose

CI/CD & Automation: GitHub Actions, Jenkins, AWS CodeBuild, Ansible

Cloud & Storage: AWS (EC2, S3, RDS, IAM, Budgets), Wasabi, MinIO, Vultr, Hetzner, Hostinger

Infra & Security: Linux, Caddy, Nginx, iptables/firewalls, Infisical (self-hosted secrets), container hardening, penetration testing, threat modeling

Languages: TypeScript, JavaScript, Java, Python

Backend: Node.js/Express, Spring Boot, gRPC, REST APIs, Socket.IO, microservices

Frontend: React, Next.js, Tamagui

Databases: PostgreSQL, MongoDB, Redis, MySQL

EXPERIENCE

DevOps / Platform Engineer — Techonsy

2025 – Present | Pune, India

- Design and operate self-hosted K3s Kubernetes clusters with ArgoCD GitOps, delivering multiple production applications through automated, git-driven deployments with HPA, PodDisruptionBudgets, and rolling updates.
- Stood up shared platform services reused across projects — self-hosted Infisical for secrets, MinIO / Wasabi for S3-compatible storage, PostgreSQL/Redis, and GHCR container image pipelines.
- Built CI/CD pipelines (GitHub Actions, AWS CodeBuild) and containerized applications with hardened, multi-stage Docker images.
- Led security hardening across platforms: container isolation, per-workload egress firewalls, secret rotation, and adversarial penetration testing that surfaced and closed critical vulnerabilities.
- Authored an end-to-end DevOps training curriculum and mentor junior engineers.

Software Engineer Intern — Tanvi Software Solutions

Prior

- Built and deployed a Spring Boot web application for the real-estate / construction domain: RESTful APIs, MySQL, scalable MVC architecture, user authentication, property listings, and booking modules.
- Contributed to server setup and deployment, improving application performance and reliability.

KEY PROJECTS

ServingServers — GPU Rental Marketplace (MVP) · *Go, gRPC, Docker, PostgreSQL, Next.js*

- Built the MVP of a GPU rental marketplace end to end across 7 phases: containerized Docker/Jupyter jobs, per-job SSH access, reverse-proxy routing, and usage-based billing.
- Engineered strong tenant isolation using Docker namespace sharing with SSH and Caddy sidecars, per-job egress firewalls (iptables), and secure inter-rental cleanup (workspace wipe + GPU vRAM reset).
- Ran adversarial security pentests and remediated 17 critical and 25 high-severity findings; authored the threat model and SECURITY.md.

LearnHub — Multi-Tenant Video-Streaming SaaS · *TypeScript, Express, MongoDB, Redis, Next.js, K3s*

- Built a white-label, Udemy/Coursera-style LMS from requirements (BRD/SRS/FRD) to production: 4-role RBAC, JWT auth with refresh-token rotation, per-org theming and dynamic landing pages.

- Implemented the video pipeline: chunked upload to S3 (Wasabi), Bull + FFmpeg HLS transcoding (360p–1080p), and signed-URL streaming with a dynamic per-org watermark.
- Deployed on K3s + ArgoCD with Infisical and MinIO; Dockerized with GitHub Actions CI/CD.

NGO — Microservices Platform on Kubernetes · *K3s, ArgoCD, Infisical, GHCR, AWS*

- Deployed an NGO platform plus a 4-service (Turborepo) microservices application on a self-hosted K3s cluster with ArgoCD GitOps, HPA, and PodDisruptionBudgets.
- Centralized secrets with self-hosted Infisical (Machine-Identity sync into Kubernetes), shipped images via GHCR, and migrated document storage to AWS S3 with billing guardrails (budgets + alarms).

Aumik — Self-Hosted Infrastructure Operations · *Docker, Caddy, Infisical, Linux, Mail*

- Operated a self-hosted (Uncloud) box: diagnosed and fixed outbound mail (Stalwart — STARTTLS relay, TLS certificates, SPF/DKIM/DMARC), then deployed and secured Postiz, Argos CI, Authentik SSO, and Novu behind rate-limiting sidecars.
- Managed all secrets via Infisical and ran an autonomous PR review and merge workflow.

ATS — Real-Time Chat Reliability & GitOps · *Socket.IO, Node, React, Vultr K8s, ArgoCD*

- Diagnosed and fixed real-time messaging bugs — Socket.IO reconnection, presence/online-status accuracy, and missed-message catch-up sync via a dedicated sync endpoint.
- Moved hardcoded secrets into CI-managed environment variables, delivered 16 GitOps improvements, and resolved production incidents (CORS, 413 upload limits, kubelet swap failures).

EDUCATION

M.Sc. Computer Science — Sir Parashurambhau College	2026 CGPA 9.14
B.Sc. Computer Science — Sir Parashurambhau College	2024 CGPA 8.81
HSC (12th) — Rajiv Gandhi Academy of E-Learning	2021 79.33%

SOFT SKILLS

Analytical · Collaborative · Leadership · Adaptable

LOOKING FOR

Looking for: hard infrastructure problems, interesting failure modes, honest code review, and a decent cup of coffee.