Sagyam Thapa

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I build and automate robust, scalable cloud infrastructure.

Experience

DevOps Engineer · Ascend Cloud Services — 2025 — Present

- Designed and deployed Kubernetes clusters on AWS & Azure for scalable workloads
- Implemented Databricks for large-scale data processing pipelines
- Developed IaC templates and automated CI/CD with GitHub Actions and Helm
- Configured observability with Prometheus, Grafana, Loki, OpenTelemetry

Backend Developer · Bitmosys — 2024

- Architected ERP infrastructure with high availability Postgres cluster, Redis caching, and Nginx API gateway
- Implemented Linkerd service mesh for secure service-to-service traffic and monitoring
- Built self-managed observability stack (Grafana, Prometheus, Loki)
- Deployed with Docker + Kubernetes, automated with CI/CD

Fullstack Developer · Cango — 2023 — 2024

- Developed dynamic dashboards with React, React Query, Zustand, and Tailwind
- Built reusable component library for political survey platform
- Integrated backend APIs with PostgreSQL and Redis
- Created data visualizations with Apache ECharts
- Refactored legacy codebase into modular TypeScript for maintainability

Frontend Developer · Matrice AI — 2022 — 2023

- Developed backend services for image annotation platform deployed on AWS
- Optimized Next.js landing page, achieving < 200ms load time
- Refactored annotation dashboard with React + Tailwind to align with new UI/UX
- Integrated observability hooks for real-time monitoring

Technical Skills

Languages TypeScript, JavaScript, Python, Go, SQL

Backend & Infra Node.js, NestJS, Express, Keycloak, Nginx, MinIO

Databases & ORM PostgreSQL, MySQL, MongoDB, Redis, Prisma, TypeORM, Drizzle

Cloud & DevOps AWS, Azure, Vercel, Docker, Kubernetes, Helm, GitHub Actions, Service Mesh, Linkerd

Observability Prometheus, Grafana, Loki, OpenTelemetry, Jaeger

Frontend React, Next.js, React Query, Zustand, Tailwind, shadcn

OS & Tools Linux, NixOS, NixPkgs, Git

Projects

InfraWise

Financial modeling tool for TCO comparison between cloud and on-prem infra.

Tools

Educational tools for algorithms, system design, and networking concepts.

Education

Kantipur Engineering College

Bachelor of Engineering, Computer Engineering 2018 — 2022 · Kathmandu, Nepal