

# Sagyam Thapa

I build and automate robust, scalable cloud infrastructure.

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## 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 (Contract)

2023 — 2024

- Developed dynamic dashboards with React, React Query, Zustand, and Tailwind
- Built a reusable component library for a 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 < 500ms time to interactive
- 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, SQL

**Backend** Node.js, NestJS, Express, Keycloak, Nginx, MinIO

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

**Cloud & Infra** AWS, Azure, Vercel, Docker, Kubernetes, Helm, GitHub Actions, Service Mesh

**Observability** Prometheus, Grafana, Loki, OpenTelemetry, Jaeger

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

**OS & Tools** Linux, NixOS, NixOps, Flakes, Git

**Exploring** Terraform, Rust, FinOps

## 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