

## WORK

---

### Bitmosys

2024-02-01 — 2024-12-01

*Backend Developer* | ERP Application Development

Fulltime

- Designed database schema and architectural diagrams for an ERP application, researching cost-effective solutions for database, observability, object storage, and cloud providers.
- Built a self-managed observability stack using Loki, Grafana, Prometheus, Jaeger, and Uptime-Kuma with custom dashboards and alerting systems.
- Deployed high-availability infrastructure including Postgres cluster with replication, Redis cluster for ACL storage, and Nginx API gateway with SSL.
- Implemented Linkerd service mesh for inter-pod monitoring and mTLS security, with horizontal pod auto-scaling for all APIs.
- Developed scalable billing services, CRUD endpoints using NestJS, and distributed rate-limiter service with PDF generation capabilities.

### Cango

2023-11-01 — 2024-09-01

*Fullstack Developer* | Political Survey Platform

Freelance

- Developed a reusable component library with over 25 components based on a new design system, improving front-end development efficiency.
- Built dynamic dashboards with varying permission levels and created a form builder similar to Google Forms for capturing survey responses.
- Designed interactive data visualization dashboards using Apache ECharts to visualize survey data from voters.
- Refactored legacy code to TypeScript following best practices for type safety and optimized state management using React Query.

### Matrice AI

2022-06-01 — 2023-06-01

*Frontend Developer* | AI Data Platform

Fulltime

- Developed a highly optimized landing page with interactive animations using NextJS, achieving a load time under 200ms.
- Refactored dashboard for data annotation, training, and inference platform based on new UI designs.
- Developed and deployed backend for an image annotation platform on AWS, supporting seamless image labeling workflows.

### Talent Exploriz

2022-05-01 — 2023-06-01

*Fullstack Developer* | Event Management Platform

Remote

- Developed a responsive frontend for an event management app using React, TypeScript, and Tailwind CSS.
- Built secure backend with JWT-based authentication using NodeJS and TypeScript.
- Deployed frontend using AWS Amplify and backend using EC2 for scalable hosting solutions.

## TECHNICAL SKILLS

---

- Languages:** TypeScript, JavaScript, Python, Go, SQL
- Backend:** NodeJS, NestJS, ExpressJS, Keycloak, Nginx, MinIO
- ORM & Database:** Drizzle, Prisma, TypeORM, MongoDB, PostgreSQL, MySQL, Redis
- Frontend:** React, NextJS, React-Query, Zustand, Astro, ECharts
- Cloud & DevOps:** AWS, Vercel, Docker, Kubernetes, Helm, GitHub Actions, Service Mesh
- Observability:** Prometheus, Grafana, Loki, OpenTelemetry, Jaeger
- Styling & Tools:** Tailwind, shadcn, Git, Linux
- Operating Systems:** NixOS, NixPkgs, Linux

## EDUCATION

---

### Kantipur Engineering College

2018-01-01 — 2022-12-01

*Bachelor of Engineering* | Computer Engineering | GPA: **3.0**

Kathmandu, Nepal

- Selected coursework:* Operating System, DBMS, Computer Networks