



EXPERIENCE

- **Bitmosys** Full-time
Backend Developer *Feb 2024 - Present*
 - **Backend System Design:**
 - * Designed database schema and architectural diagrams for an ERP application.
 - * Researched and recommended cost-effective solutions for database, observability, object storage, cloud providers, authentication, and disaster recovery.
 - * Wrote foundational backend code, established coding guidelines, and set up CI/CD pipelines for both frontend and backend.
 - **Observability:**
 - * Built a self-managed observability stack using Loki, Grafana, Prometheus, Jaeger, and Uptime-Kuma.
 - * Developed logging and tracing services to capture and send logs and traces for enhanced system monitoring.
 - * Created Grafana dashboards to visualize observability data.
 - * Set up monitoring and alerting systems with Uptime-Kuma and Alertmanager, including escalation chains for incident response.
 - **Deployment:**
 - * Deployed the said monitoring stack with appropriate level of scaling and retention.
 - * Deployed a Postgres cluster with high availability replication, backups and logging.
 - * Deployed a Redis cluster with high availability for storing ACL.
 - * Deployed a Nginx as API gateway with cert manager for SSL connection.
 - * Deployed a Linkerd service mesh for monitoring inter-pod latency and securing inter-pod traffic with mTLS.
 - * Deployed all APIs with horizontal pod auto scaling.
 - **Development:**
 - * Developed services to generate and send itemized billing to clients and provide monthly usage reports (storage, egress/ingress).
 - * Built scalable APIs and CRUD endpoints using NestJS, adhering to best coding practices.
 - * Introduced documentation standards and diagrams for key project components.
 - * Created a distributed rate-limiter service to prevent resource abuse and asynchronously generate, store, and email PDF documents.
 - * Built a service to generate per client usage reports.

- **Cango** Freelance
Fullstack Developer *Nov 2023 - Sept 2024*
 - **Component Library:** Developed a reusable component library with over 25 components based on a new design system, improving front-end development efficiency.
 - **Dashboards:** Built dynamic dashboards using these components for users with varying permission levels.
 - **Form builder:** Created a form builder similar to Google Forms to capture survey responses from voters.
 - **Data Visualization:** Designed interactive dashboards using Apache ECharts to visualize survey data.
 - **Refactor:** Refactored legacy code to typescript following best practises for type safety.
 - **Optimizations:** Refactored legacy code to TypeScript for improved type safety and reduced over-fetching using React Query, resulting in more efficient state management.

- **Talent Exploriz** Freelance
Fullstack Developer *May 2022 - Jun 2023*
 - **Frontend:** Developed a responsive frontend for an event management app using React, TypeScript, and Tailwind CSS.
 - **Backend:** Built the backend with JWT-based authentication using NodeJS and TypeScript.
 - **Deployment:** Deployed the frontend using AWS Amplify and the backend using EC2 for scalable hosting.

• Matrice AI

Frontend Developer

Full-time

Jun 2022 - Jun 2023

- **Landing Page:** Developed a highly optimized landing page with interactive animations using NextJS, achieving a load time under 400ms.
- **Dashboard Refactor:** Refactored the dashboard for the data annotation, training, and inference platform based on new UI designs.
- **Data Labeling Platform:** Developed and deployed the backend for an image annotation platform on AWS, supporting seamless image labeling.

TECHNICAL SKILLS

- **Languages:** Typescript, JavaScript, Python, Go, SQL
- **Backend:** NodeJS, NestJS, ExpressJS, Keycloak, Nginx, MinIO
- **ORM:** Prisma, TypeORM, Mongoose
- **Database:** MongoDB, PostgreSQL, MySQL, Redis
- **Observability:** Prometheus, Grafana, Loki, OpenTelemetry
- **Cloud:** AWS, Digital Ocean, Linode, Vercel
- **Frontend:** React, NextJS, React-Query, Zustand, Astro, ECharts
- **Styling:** Tailwind, shadcn, CSS
- **Other:** Git, Linux, Docker, Kubernetes, Helm, Service Mesh, GitHub Actions

EDUCATION

- **Kantipur Engineering College**
Bachelor on Computer Engineering

Kathmandu, Nepal
2018 - 2022