

AJAY KUMAR MANDAL

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EXPERIENCE

Klyra Innovations - Bengaluru, IN

Jan 2025 - Feb 2025

Full Stack Developer

- Developed the MVP product mobile design using Reactjs and Tailwindcss, integrated user authentication and email verification with **Clerk** for the users.
- Engineered a high-performance **FastAPI** backend to efficiently handle concurrent user requests.
- Designed and developed the organization's SEO-optimized website using **Next.js**, **React**, and **TypeScript** collaborating with senior team members.

Kyndryl - Bengaluru, IN

Apr 2024 - July 2024

Project Trainee, Internship

- Collaborated with senior developers to optimize service delivery and improve **Python** scripts for backend functionality.
- Supported project workflows by preparing technical documentation, progress reports, and ensuring project deliverables aligned with development timelines.
- Integrated **Azure** and **SQL** solutions for efficient data management and visualization in web applications.

PROJECTS

On-Cloud Video Transcoding: *Nodejs, Express.js, Firebase, FFmpeg, Docker, GCP*

- Integrated **Firebase Authentication** for secure user access and let them use video uploading features. Designed an intuitive user interface with **Next.js**, **React.js**, and **TailwindCSS** for seamless user experience.
- Implemented **Google Cloud Platform** for cloud computing and video processing, reducing processing time and increasing scalability.
- Utilized Ffmpeg library for video transcoding and automated the process using **Cloud Run** with a **Pub/Sub** model, resulting in increase in overall efficiency.

CMS E-Commerce and Admin: *Nextjs, Typescript, PostgreSQL, Zod, Zustand, Tailwindcss*

- Implemented **Auth.js** for in-house authentication of Admins in the CMS panel, resulting in a huge reduction in unauthorized access attempts, protecting necessary API endpoints.
- Utilized **Next.js 14**, **React.js**, and **TypeScript** to swiftly develop dedicated e-commerce stores for various businesses within minutes, resulting in a 90% decrease in time-to-market for new online stores.
- Deployed dedicated e-commerce stores in minutes using modular architecture, state-managed with **Zustand**, and supported by **Stripe** for payment processing.

NoteMe - Blog App : *Nextjs, Hono.js, CF Workers, PostgreSQL*

- Developed and executed a comprehensive plan to build a full stack project from scratch, gaining proficiency in CRUD operations and React.js, resulting in a 30% increase in coding efficiency.
- CloudFlare Workers** for backend deployments built using **Hono.js** on **Edge runtime** environment for Server-less action.

TECHNICAL SKILLS

Language: Javascript, Typescript, Python

Tools/Technologies: HTML, CSS, Tailwind CSS, SQL, Prisma, Reactjs, Git, CI/CD, Docker, Linux, Gen AI

Cloud : AWS(CDN, S3, ASG), GCP(Pub/Sub, Artifact Registry, Cloud Run)

EDUCATION

Jain (Deemed-to-be University), Bengaluru, IN

2020 - 2024

Bachelor of Engineering, Computer Science and Engineering - GPA 8.74/10.0

Kathmandu Model Higher Secondary School, Kathmandu, NP

2018 - 2020

Higher Education, Mathematics and Physics - GPA 3.41/4.0