

Nilanjan Mandal

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SKILLS

Languages: TypeScript, JavaScript, Go, Python, SQL

Technologies & Tools: NextJs, Docker, AWS, S3, React Native, Express, MySql, PostgreSQL, Git

WORK EXPERIENCE

StepOut

Software Engineering Intern

Remote, India

Nov 2021 - May 2024

Frontend Development:

- Integrated diverse chart libraries and **Skia Graphics** for enhanced user engagement.
- Implemented **Razorpay** payment gateway and increased revenue by 65%.
- Integrated **MixPanel** and **Google Analytics 4**, improving user behavior insights and decision-making processes by 40%.
- Implemented **CodePush** in **React Native** for seamless **over-the-air updates**, minimizing user downtime.
- Integrated **multi-language support**, expanding the user base by 25%.

Backend Development:

- Improved video upload solution by removing the 5GB cap and transitioning to **multi-part uploads**, increasing upload rate by 70%.
- Implemented a **Lambda** function using **Playwright** for generating PDFs from HTML, merging PDFs, eliminating manual work, and improving document processing efficiency.

PROJECTS

Flixx - Automated YouTube Video Upload Tool | [Link](#)

- Developed a tool to **automate the process** of **uploading YouTube videos remotely**, utilizing **Express** for the **backend** and **Next.js** for the **frontend**.
- Implemented an **approval workflow** where videos are uploaded to **YouTube** automatically upon approval, **eliminating the need for manual intervention**.
- Integrated **YouTube Data API v3** for direct server-side video uploads.
- Leveraged **Docker** for containerization and **PostgreSQL** and **Redis** for robust data management.
- Ensured **secure authentication and authorization** processes for both editors and admins.

Kaigi - Real-time Video Chat | [Link](#)

- Designed a real-time video chat application using **Next.js** for the frontend and **Fastify** for the backend.
- Engineered seamless **peer-to-peer** video communication via **WebRTC** and enhanced **real-time messaging** and event handling with **Socket.IO**.
- Integrated **collaborative whiteboard** for enhanced user interaction.

EDUCATION

RCC Institute of Information Technology

B.Tech in Information Technology - CGPA:8.37

Jun 2020 - Jun 2024

Kolkata, India