

Nilanjan Mandal

FULLSTACK NEXT.JS ENGINEER

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PROFESSIONAL SUMMARY

Full stack developer using Next.js App Router, TypeScript, React, Node.js and PostgreSQL. Built publishing workflows with server-side uploads and authentication, plus admin tools and model-evaluation interfaces.

CORE COMPETENCIES

- Next.js App Router
- TypeScript
- React
- Tailwind CSS
- Node.js APIs
- PostgreSQL
- Turborepo & Bun

PROFESSIONAL EXPERIENCE

23ventures

Sep 2024 - Oct 2026

Member of Technical Staff

Remote, India

- Used Next.js App Router, Turborepo and Bun across SocialChange and Annotate.
- Developed an image-annotation workspace in React and TypeScript, covering dataset uploads, bounding-box labeling, preparation, training configuration, and model evaluation.
- Implemented resumable multipart AWS S3 uploads with concurrent transfers, progress reporting, retry logic, and expired signed-URL renewal.
- Created dataset preparation and YOLOv8 training interfaces for augmentation, train/validation/test splits, compute selection, cost estimates, and evaluation metrics.
- Developed React admin workflows for merchant venues, configurable campaigns and prizes, wallet oversight, bulk redemption decisions, and targeted notifications.
- Developed a shared React Native/Expo platform for four branded applications, with reusable product logic, brand-specific themes, and configurable experiences.

StepOut

Nov 2021 - May 2024

Software Engineering Intern

Remote, India

- Improved large-video upload handling through multipart uploads and built AWS Lambda/Playwright workflows for HTML-to-PDF generation and document merging.
- Integrated Razorpay payments, analytics instrumentation (Mixpanel and GA4), multilingual support, and React Native over-the-air updates.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, Python, Go

Frontend & Mobile: React, Next.js (App Router), Tailwind CSS, TanStack Query, Zustand, React Native, Expo

Backend & Data: Node.js, Express, PostgreSQL, Redis, REST APIs, WebSockets, FastAPI

Cloud & Tooling: AWS (S3, Lambda, EC2, Amplify), Docker, GitHub Actions, Turborepo, Bun, Git, Expo EAS, Fastlane

Personal experience: Prisma

SELECTED PROJECTS

Flixr - YouTube Workflow Automation

Built an approval-based video publishing workflow with YouTube Data API v3, server-side uploads, and editor/admin authentication.

Next.js, Express, PostgreSQL, Redis, Docker

Kaigi - Real-Time Video Collaboration

Built peer-to-peer video calling, real-time messaging, and a collaborative whiteboard.

Next.js, Fastify, WebRTC, Socket.IO

EDUCATION

B.Tech, Information Technology RCC Institute of Information Technology, Kolkata

2024

CGPA: 8.37