

SHIVAM NAGI

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WORK EXPERIENCE

Scalar - *Founding Engineer*

Apr 2021 - Jan 2023

Scalar

- Built a video editor from scratch with frontend in Next.js, Redux, MobX and backend with Node.js, GraphQL and Prisma.
- Worked on real-time multiplayer functionality to let users edit videos collaboratively. Implemented using CRDTs and WebSockets. Also created a dashboard to view state and list any issues of user projects, leading to easier debugging.
- Built timeline-based editing functionality in the video editor, with features like multiple tracks, scaling, trimming, drag-n-drop, and more. Implemented using visualized list and d3 to maintain great performance.

Annotate

- Implemented project versioning end-to-end using GraphQL for APIs, Prisma as the ORM and React, Tailwind on frontend. This let users easily iterate and get feedback without the need to create multiple projects for revisions of the same video.
- Worked on implementing time based comments and annotations on videos, letting reviewers provide precise feedback. Used tldraw library with customizations for annotations and used GraphQL to implement real-time comments.
- Improved commenting by adding ability to edit, reply to, resolve comments and added in-site and email notifications.

Devsnest - *Member of Technical Staff*

Mar 2021 - Feb 2022

- Architected the frontend of an ed-tech platform and lead the migration to Next.js and TypeScript, which lead to initial load times going from 5s to 1.5s, improved SEO and faster deployments to production and preview environments.
- Took the initiative to develop an online code-editor for algorithmic challenges, helping users practice DSA. Used monaco as the code editor. Integrated existing backend APIs using react-query to test code and show results of submissions.
- Maintained CI/CD pipelines for the site's frontend and community discord bot, bettering reliability and code quality.

Redink - *Front-End Intern*

Oct 2020 - Apr 2021

- Built a SaaS product to help schools conduct classes and examination online. Used React Class Components and Redux/Redux Thunk while styling it with Bootstrap. The APIs were called using Axios.
- Developed features around attendance, exams, and reports giving teachers and parents more visibility.
- Ported school management features of the website to a cross-platform React Native app. Developed UI components for consistent styling throughout the app from scratch.

PROJECTS

React Dimension Select

- Worked on a library for dimension selection component using Vite and TailwindCSS.
- Lets user define aspect ratios and create a preview on top of an image/video to visualize it.

WhatsApp Automation

- A bot made in Node.js for helping users create stickers, moderate groups and run code in many languages on WhatsApp.
- Processed over 120K messages and created over 17k stickers in a week in over 300 groups.

Linkify

- A customizable link aggregator which let users create personalized pages to share their links.
- Users can choose between many animations, layouts, and colors, matching it with their brand/personality.
- Used React and Redux for the frontend, with hosting, database and user auth in Firebase.

TECHNICAL SKILLS

Programming: HTML, CSS, JavaScript/TypeScript, Next.js, React, React Native, Node.js, Express, GraphQL, tRPC

Libraries: Redux (Thunk, Toolkit), MobX, Zustand, React Query, Tailwind, Bootstrap, Radix UI, Axios

Tools & Platforms: Firebase, Docker, GCP, AWS, Git/GitHub, VS Code

EDUCATION

AIMT College, Haryana (India)

2019–2022

Bachelor of Computer Application