Rohit Kumar R

Software Developer

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Portfolio: rohitrk.in
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Leetcode: leetcode.com/u/rohitsmudge190

SUMMARY

Passionate Developer experienced in full-stack web development, specializing in building scalable and performant applications using JavaScript (React.js, Next.js, Node.js, Express.js) and Python (Flask and FastAPI). Adept at leveraging modern AI development tools (e.g., Gemini, Cursor) to accelerate research, code generation, and testing.

SKILLS

- **Languages: Javascript, Python, C++**
- **Frontend: React.js, Next.js, Tailwind CSS**
- **Backend: Node.js, Express.js, Firebase, PostgreSQL, MongoDB**
- **Cloud & DevOps: Google Cloud, AWS, Docker, GitHub Actions**
- **Core Competencies: Data Structures, Algorithms, System Design, RESTful APIs**

EXPERIENCE

Software Developer - *MyLang/Qiwi/Nodu*

June 2023 - PRESENT

- Architected and deployed a **scalable AI audio production backend** using Python (Flask), **Docker**, and **Google Cloud Run**; integrated **OpenAI**, ElevenLabs, and Google TTS APIs to automate narration and content generation.*(Qiwi/Nodu)*
- Developed a streamlined internal tool with **React**, Tailwind, and Firebase, **reducing AI audiobook production time by over 50%** and significantly improving content creation workflows.*(Qiwi/Nodu)*
- Engineered an innovative **AI-powered video editing interface** using React and Flask that **translates natural language prompts** into actionable video modifications, leveraging image and video generation models in `fal.ai`.*(Qiwi/Nodu)*
- Implemented a complete payment system using **Stripe and React.js** to handle one-time credit purchases and introduce **subscription plans** for the AI video platform.*(Qiwi/Nodu)*
- Engineered a comprehensive manual story creation and audio editing platform using **Next.js and WebAudio APIs**, enabling over 10,000 users to create and narrate stories.*(MyLang)*
- Developed a **scalable backend audio processing pipeline using AWS Lambda, Firebase Cloud Functions** to automatically mix audio segments, suppress noise, and compress files into a final, high-quality track. This pipeline integrates with DRM vendors for content encryption and saving them to **S3**.*(MyLang)*
- Engineered an **advanced audio layering** system using the **WebAudio API** to dynamically mix narration with background music and sound effects, featuring automated gain and fade controls.*(MyLang)*
- Designed a **comprehensive monetization platform**, integrating the **Cashfree payment gateway** to enable premium content access through a digital coin system and **drive revenue growth**.*(MyLang)*

PROJECTS

DSA Practice Platform - *Project Link*

Developed a dynamic platform to solve DSA problems using JavaScript. Built with Next.js for performant UI, Firebase for backend, and CodeMirror for a robust code editor experience.

Real-Time Collaborative Design Application - *Project Link*

Developed an interactive design platform to transform creative ideas into collaborative designs. Integrated real-time collaboration with LiveBlocks.io,Fabric.js and Next.js for seamless user interactions.

EDUCATION

B.Tech in Computer Science - *8.9 GPA*

MS Ramaiah University of Applied Sciences, Bengaluru (August 2019 - May 2023).