

# Harshal Ranjhani

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## Education

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### Vellore Institute of Technology

Expected May 2025

Bachelor of Technology in Computer Science with specialization in IOT (CGPA: 9.24 / 10.00)

Vellore, India

- **Relevant Achievements:** Projects Lead at IET-VIT, YANTRA Hack-Track Winner, WomenTechies'22 Best Freshers

## Experience

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### S20.ai

Sept 2024 – Present

Software Engineering Intern

Remote

- Enhanced data download speeds in the Copilot.Camera React Native app by implementing pagination and integrating SQLite for local storage, significantly boosting performance and improving user responsiveness.
- Built and synchronized a fully functional calendar feature in the studio platform using Next.js, enabling real-time integration with Google Calendar for streamlined scheduling and enhanced user productivity.
- Implemented background upload processes with real-time progress indicators, providing a seamless user experience by allowing uploads to continue uninterrupted and improving data reliability.

### Jiibs

May 2024 – Jun 2024

Backend Intern

Remote

- Engineered and optimized backend functionalities using Next.js and MongoDB, resulting in a marked improvement in project scalability, performance, and data integrity.
- Collaborated with a cross-functional agile team, contributing to backend architecture design and implementing robust data management solutions that met high standards of efficiency and scalability.

### Soundverse.ai

Jun 2023 – Jan 2024

Full Stack Developer, Intern

Remote

- Developed Soundverse.ai's studio and SaaS platforms with Next.js, React.js, and MongoDB, enhancing content delivery and engagement for 20,000+ users and enabling the generation of over 50,000 audios.
- Built a high-performance audio processing pipeline using Google Cloud and FFmpeg, facilitating advanced online editing features and a user-generated audio library for customizable configurations.

## Projects

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### Genie | Golang, Cobra, Homebrew

- Developed Genie, an AI-powered CLI tool designed to assist beginners in learning CLI commands and functioning as a personal assistant, resulting in a significant increase in user learning efficiency.
- Implemented multi-functional features including music generation, command execution, image generation, text-to-text responses and code documentation significantly enhancing overall user interaction and productivity.
- Integrated an in-terminal chat feature, alongside customizable commands that enable users to decide when and if they want to include directory snapshots in prompts, and various other flags to enhance versatility and personalization.

### Nerd Nest | Shadcn UI, Next.js, Supabase

- Engineered Nerd Nest, a robust Next.js application utilizing Shadcn UI and Supabase, to support placement preparation and track progress effectively.
- Synchronized LeetCode connectivity with custom question addition and starred question management, allowing users to tailor their preparation schedules.
- Set up automated email notifications for starred questions and integrated a GPT chatbot to provide real-time assistance with related queries, significantly improving user support and engagement.

## Technical Skills

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**Languages:** Typescript, Javascript, Go, Java, C, C++, Python

**Technologies:** Next.js, React.js, Express.js, Node.js, MongoDB, PostgreSQL, Redux, Tailwind, Bootstrap, Cobra, Svelte, Github Actions, Ffmpeg, Google Cloud Platform, Supabase, FastAPI, RAG, LLMs

**Concepts:** Rest API, Database Normalization, Git, CI/CD, Agile Methodology, Cloud Computing, Operating Systems