Harshal Ranjhani

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Education

Vellore Institute of Technology   Sept 2021 – 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

rtCamp   July 2025 – Present
Associate Software Engineer   *Remote*

S20.ai   Sept 2024 – Jun 2025
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.
- Developed Copilot.Feeds end-to-end — an AI-powered video processing pipeline that ingests RTSP video feeds, identifies relevant segments using a Large Vision-Language Model (VLM), and dispatches real-time alerts and notifications to users.

Hypersift.ai   Dec 2024 – Mar 2025
Backend Developer   *Remote*
- Built and optimized backend infrastructure using AWS services including Lambda and S3, implementing CDN solutions that improved application load times and enhanced user experience.
- Developed scalable video conversion pipelines and integrated face-api.js for anti-cheating detection systems, ensuring reliable media processing and enhanced interview integrity.

Soundverse.ai   Jun 2023 – Jan 2024
Full Stack Developer   *Remote*
- Developed SaaS platform using Next.js, React.js, and MongoDB, serving 20,000+ users and enabling generation of 50,000+ audio files with enhanced content delivery and user engagement.
- Built high-performance audio processing pipeline using Google Cloud Platform and FFmpeg, implementing advanced online editing features and scalable system architecture.

Projects

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.

EmGen | *Face-api.js, Tensorflow.js, Next.js, Google Cloud Platform*
- Built EmGen, a web application that uses face-api.js and Tensorflow.js to generate personalized music based on real-time emotion detection from user facial expressions and additional mood context.
- Integrated Facebook's MusicGen model with Google Cloud Platform for hosting and storage, creating an innovative emotion-to-music pipeline that delivers contextually relevant audio experiences.

Technical Skills

Languages: Typescript, Javascript, Go, Java, C, C++, Python, Bash
Technologies: Next.js, React.js, Express.js, Node.js, MongoDB, PostgreSQL, Redux, Cobra, Svelte, Github Actions, Ffmpeg, Google Cloud Platform, Amazon Web Services, Supabase, FastAPI, RAG, LLMs, Cloudflare
Concepts: Rest API, CDNs, Database Normalization, Git, CI/CD, DevOps, Agile Methodology, Cloud Computing, Operating Systems, System Design