Harshal Ranjhani

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Experience

rtCamp July 2025 – Present
Software Engineer *Remote*

- Built an **internal dashboard** with **SSO support** for enterprise workflows, and implemented **normalized search** and **content migration** features for a large retail platform, improving operational efficiency and data consistency.
- Developed and shipped **features, fixes, and enhancements** across **Cox Automotive's WordPress ecosystem** spanning around **8 sites**, using **PHP** and **JavaScript** to improve platform functionality and maintainability.
- Executed **WordPress upgrades**, **plugin updates**, **QA**, and **regression testing** for enterprise client platforms, helping ensure **stable releases** and smooth production rollouts.
- Supported **platform-level improvements** across multiple client projects by contributing reusable **backend** and **frontend** changes aligned with large-scale **WordPress engineering** standards.

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

Soundverse.ai Jun 2023 – Jan 2024
Full Stack Developer *Remote*

- Built an **AI-powered audio generation 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 a **high-performance audio processing pipeline** using **Google Cloud Platform** and **FFmpeg**, implementing advanced **online editing features** and **scalable system architecture**.

Projects

Industrial IoT Process Analytics Platform | *MQTT, MySQL, NocoDB, Metabase, Caddy, Cloudflare*

- Built the **software and analytics layer** for an on-premise industrial IoT platform, ingesting machine telemetry over **MQTT** for up to **50 machines across two plants** and using **MySQL** with customized **NocoDB and Metabase** dashboards for process monitoring.
- Deployed and managed the **self-hosted software infrastructure** end-to-end, configuring **Caddy**, **Cloudflare**, service networking, and **automated backups** to support reliable on-premise operation.

Raah | *Next.js, TypeScript, Cloudflare Workers, Supabase, OpenRouter, KV*

- Built a **real-user monitoring and observability platform** capturing **DNS, TCP, TLS, TTFB, Core Web Vitals**, JavaScript errors, and network metadata directly from user browsers with ISP, geography, and connection-type breakdowns.
- Engineered the platform using **Next.js, Cloudflare Workers, Supabase, Cloudflare KV, and OpenRouter**, implementing **caching, AI-assisted analytics, alerting**, hosted status pages, custom domains, and billing workflows.

Technical Skills

Languages: TypeScript, JavaScript, PHP, Go, Python, Java, C, C++, Bash, SQL
Technologies: Next.js, React.js, Node.js, Express.js, FastAPI, WordPress, MySQL, PostgreSQL, MongoDB, SQLite, Supabase, MQTT, Metabase, NocoDB, Caddy, Cloudflare, AWS, GCP, GitHub Actions, FFmpeg, RAG, LLMs
Concepts: REST APIs, System Design, Database Normalization, CI/CD, DevOps, Self-Hosting, Reverse Proxies, Observability, IoT Telemetry, Backup & Recovery, CDNs, Git

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