

Sankala Nitheesh

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EDUCATION

Vellore Institute Of Technology

Bachelor of Technology in Computer Science, specialized in AI

Chennai, Tamilnadu

Present

EXPERIENCE

Full Stack AI Engineer

Jan. 2026 to Apr. 2026

Failbox

Hyderabad, India

- Developed RESTful API endpoints in Express.js and TypeScript to handle anonymous entry submission, retrieval, and the app's core feature workflows
- Integrated Google's Gemini API to power an AI-driven reflection engine, generating empathetic, structured feedback from user-submitted failure narratives
- Configured Firebase Authentication to manage anonymous sessions without collecting personally identifiable information
- Deployed and maintained the backend service on Render, managing environment configuration and release deployments

Backend & Infrastructure Engineer

Apr. 2026 to Present

Kravos Tech

Hyderabad, India

- Designed, built, and maintain the company's entire self-hosted server infrastructure from bare metal, running 10+ containerized services via Docker Compose and Portainer
- Architected a zero-trust network layer using Tailscale and WireGuard for remote access, ufw for firewalling, and AdGuard Home for private internal DNS resolution
- Built a working Retrieval-Augmented Generation pipeline using Ollama, Qdrant, and n8n to ground LLM responses in internally stored knowledge
- Deployed self-hosted SonarQube for static code analysis with GitHub PR integration, and Uptime Kuma for service health monitoring with automated Discord/Slack alerting
- Primary backend contributor and documentation owner for Assay (assay.kravos.tech), a hiring assessment platform where candidates complete real sandboxed tasks and are evaluated through an automated interview on their own decisions

PROJECTS

Narzo Homelab | *Termux, proot Ubuntu, nginx, Tailscale* | github.com/Nitheesh-Git/Narzo-server-documentation

- Engineered a self-hosted Linux server running entirely on a non-rooted Android phone via Termux and proot-distro Ubuntu, with nginx as reverse proxy and Tailscale for remote access
- Deployed and maintained 8 concurrent services (file storage, monitoring, media streaming, FTP, download management) under a custom shell-based process watchdog
- Authored evidence-led technical documentation covering architecture, network exposure, security posture, and an incident register, explicitly separating confirmed facts from unresolved unknowns

Researchify | *Next.js, TypeScript, PostgreSQL, Supabase, LLM APIs*

- Built the OAuth 2.0 delegated authorization system and calendar/mail integration layer enabling the platform to act on users' Google Calendar and Gmail indefinitely without storing passwords
- Engineered an HMAC-authenticated webhook integration with a third-party meeting-recorder service to capture transcripts with zero manual intervention
- Designed an LLM subsystem (Llama 3.3 70B) producing structured meeting summaries, auto-extracted action items converted to tracked tasks, and AI-generated pre-meeting briefings
- Instrumented the deployed application and analyzed real usage data (5,000+ page views, 94 active users) to validate the platform's information architecture
- Conducted a self-led security audit, identifying and documenting a critical cross-tenant data isolation defect along with a prioritized remediation plan

TECHNICAL SKILLS

Languages: HTML/CSS, JavaScript, Java

Frameworks & Libraries: Next.js, React, Express.js, Spring (learning)

Databases: PostgreSQL, MySQL

Cloud & Infrastructure: AWS Micro Services, Docker, Nginx, Tailscale, WireGuard

Tools: Git, Linux, n8n, Ollama/Qdrant (RAG), SonarQube