

# Nikhil Ponaganti

## Senior Full-Stack Engineer — AI & Frontend Specialist

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### SUMMARY

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Senior Full-Stack Engineer with 5+ years of production experience building AI-powered web applications, cross-platform desktop tools, and cloud-native infrastructure. Deep expertise in React, Next.js, TypeScript, Python FastAPI, and LLM/RAG pipelines. Currently at Ofofo, architecting an Electron-based cloud compliance platform covering SOC 2, HIPAA, ISO 27001, NIST CSF, PCI DSS, and GDPR for enterprise clients. Delivered a 30% page-load reduction across 20+ pages and maintained 9 microservices simultaneously on GCP. 3× Employee of the Month.

### EXPERIENCE

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#### Senior Software Development Engineer

Feb 2023 – Present

Ofofo Pvt Ltd — Bengaluru

*Next.js · React · TypeScript · Tailwind CSS · Node.js · Python FastAPI · Electron · Flowise · LiteLLM · Steampipe · Powerpipe · Docker · GCP · Neo4j · D3.js · Stripe · Twilio · Vercel · NeoDB*

- Architected and shipped a cross-platform Electron desktop app (macOS, Windows, Linux) automating cloud compliance evidence collection across GCP, Azure, and AWS against all major SCF frameworks — SOC 2, CIS, HIPAA, ISO 27001, NIST CSF, PCI DSS, GDPR, Essential 8, CIS CSC v8, and beyond. Owned the full stack: React + TypeScript renderer, Node.js main process, bundled Python FastAPI MCP agent, Steampipe + Powerpipe integration, and electron-builder packaging with notarization.
- Built the MCP (Model Context Protocol) server inside the app — an ontology-driven evidence resolver that maps user prompts to the correct Steampipe queries and SCF framework controls, feeds structured results back to the LLM for remediation suggestions, and supports local SLMs as an offline fallback.
- Designed an AI-native chat UI library that renders interactive components (compliance score cards, control drill-downs, snapshot diffs, drift forecasting, audit-package PDF/DOCX export) inline as agent tool outputs — all inside a single Electron window with full dark-mode support.
- Built a RAG document pipeline UI for the SaaS platform: file upload with live progress, Flowise-backed chunking and embedding, semantic search — enabling clients to query private compliance documents in plain English.
- Added a LiteLLM-powered multi-LLM chat widget to the SaaS dashboard, routing prompts to OpenAI, Anthropic, and local providers with custom prompt templates and session memory.
- Implemented SSR and SSG via `getServerSideProps` / `getStaticProps`; achieved a 30% page-load reduction through structured data, meta optimisation, and route-level code-splitting across 20+ pages.
- Integrated Stripe payments, Twilio real-time communications, and AWS S3 into the cybersecurity marketplace; engineered knowledge-graph visualisation with D3.js force-directed graphs pulling live Neo4j data.
- Maintained Docker deployment of 9 microservices on GCP; owned frontend-to-backend API contracts and coordinated releases with the DevOps team.

#### Full-Stack Developer

Feb 2021 – Feb 2023

AxiomIO Technologies — Hyderabad

*React · Vue.js · Angular · Node.js · Python Flask · Chart.js · Web3.js · AWS S3/CloudFront/Cognito · MongoDB · MySQL · PWA*

- Built a React HR-management SaaS with employee dashboards, leave flows, and approval chains; implemented JWT authentication via AWS Cognito consuming Flask REST APIs.
- Developed a Vue.js real-time trading interface with live Chart.js price feeds, order entry forms, and a Web3-connected wallet, backed by a Node.js + Web3 API layer.
- Delivered an Angular marketplace (product listings, search, cart, checkout) hosted on AWS S3 + CloudFront; added PWA offline caching and service workers, significantly cutting mobile load times.
- Built a cloud-integration monitoring dashboard in React, visualising data-flow metrics and API sync status across third-party connectors via an AWS Express backend.

## Web Designer

Jun 2020 – Feb 2021

Sam Computronics — Hyderabad

- Built a custom internal tool that streamlined customer-service operations through automated request routing.

## SKILLS

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<b>Frontend</b>	Next.js, React, TypeScript, Vue.js, Angular, Tailwind CSS, D3.js, Chart.js, Electron, PWA, SSR, SSG
<b>Backend</b>	Node.js, Python, Flask, FastAPI, REST APIs, PostgreSQL, MongoDB, MySQL, Drizzle ORM
<b>AI / LLM</b>	LiteLLM, Flowise, RAG Pipelines, Prompt Engineering, MCP (Model Context Protocol), AI Agents, Local SLMs, Tool Calls, Neo4j
<b>Cloud &amp; DevOps</b>	GCP, AWS S3, AWS CloudFront, AWS Cognito, Azure, Docker, Vercel, GitHub Actions, CI/CD, Steampipe, Powerpipe
<b>Integrations</b>	Stripe, Twilio, Web3.js, JWT, NeoDB, AWS CodeCommit
<b>Compliance</b>	SOC 2, HIPAA, ISO 27001, NIST CSF, PCI DSS, GDPR, CIS CSC v8, Essential 8, SCF Frameworks

## EDUCATION

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### M.Tech — Computer Science

2026 — In Progress

BITS Pilani WILP

### B.Tech — Computer Science

2020

Malla Reddy Institute of Technology