SURESH SARAGADAM

AI Engineer | Senior Software Development Engineer

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PROFESSIONAL SUMMARY

AI Engineer and Senior Software Development Engineer currently employed at NielsenIQ (October 2022 to Present). About 10 years of full stack experience with React and Node.js. For 1.5+ years has built a production Generative AI conversational assistant that understands user intent and returns grounded responses from product systems. Skilled in Azure OpenAI, Python, Pydantic, prompt engineering, LLM evaluation, token optimization, and production monitoring with Grafana. Seeking AI Engineer roles focused on production GenAI and LLM applications.

CORE SKILLS

AI and Machine Learning: Generative AI, LLM, Azure OpenAI, GPT-4o, GPT-4o-mini, o-series, intent understanding, grounded responses, prompt engineering, prompt evaluation, regression testing, agent-style tool calling, multi-step orchestration, token optimization, Python, Pydantic, structured outputs, conversational AI

Frontend: React, React.js, TypeScript, JavaScript, Analytics UI, reusable component libraries

Backend: Node.js, NestJS, Python, REST APIs

Databases: PostgreSQL, MySQL, MongoDB

Tools and Platforms: Grafana, Docker, Nginx, Keycloak, Git, GitHub, Linux

PROFESSIONAL EXPERIENCE

Senior Software Development Engineer | NielsenIQ (NIQ)

October 2022 - Present | India

- Building a production Generative AI assistant (1.5+ years) for retail analytics (CPG manufacturers) that understands user intent and responds using internal system data.
- Integrated Azure OpenAI with agent-style tool calling and multi-step flows; used Python and Pydantic for structured outputs.
- Implemented automated evaluators for safe prompt changes; optimized token usage for cost and latency; monitored services with Grafana.
- Delivered full stack features with React frontend and Node.js/Python backend; shipped reusable components across teams.

Senior Software Development Engineer | Tata Consultancy Services (TCS)

January 2021 - September 2022 | India

- Developed React.js retail analytics applications for CPG manufacturers and reusable frontend components.
- Received Innovista Award and client Duct Tape Award for module delivery impact.

Software Development Engineer (joined as intern) | Schemax Expert Techno Crafts

February 2017 - December 2020 | India

- Built Brandix Shop Floor Control REST APIs on an Nx mono-repo platform spanning 36 plants for manufacturing productivity tracking.
- Supported BIEAP examination valuation systems; integrated Keycloak authentication; delivered IoT vehicle tracking and payment gateway features.

PROJECTS

Intent-Aware Analytics Assistant | NielsenIQ

Azure OpenAI, Python, Pydantic, Prompt Evaluation, Token Optimization, Grafana, React, Node.js | 1.5+ years

- Production conversational AI assistant that maps user intent to system data and returns accurate analytics responses.
- Improved reliability with Pydantic structured outputs, evaluator suites, token-conscious prompting, and Grafana monitoring for safe iteration.

EDUCATION

Bachelor of Science in Computer Science | Dr. Hima Sekhar Degree College

2012 - 2015 | Visakhapatnam, India

AWARDS AND ACHIEVEMENTS

- Excellence Award (Schemax); USA client appreciation for one-week delivery; CTO appreciation for fast technology ramp-up.
- Innovista Award (TCS); client Duct Tape Award (TCS).