

# Nikhil Menneni

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## SKILLS

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**Core Technologies:** Node JS, Typescript, Fastify, Express, Javascript, Postgres, GraphQL, React.js, HTML, CSS

## EXPERIENCE

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### Niro Money (QFI Technologies) - Acquired by Knight Fintech Pvt Ltd

SDE-1 | Dec 2022 - Present

#### Voice Bot Product:

- Contributed to building and scaling a voice bot that became P&L self-sufficient within its first month, enabling ₹1 Cr+ loan disbursals. Integrated real-time voice and data features using **Azure Services** and **Deepgram** for speech-to-text and text-to-speech, enabling interactive and automated workflows.

#### Credit Line Platform:

- Helped deliver a credit line product integrated with lenders like IDFC Bank and partners like Snapdeal within a month, driving ~₹5 Cr in loan disbursals. Built GraphQL-based microservices (Fastify, Apollo, Node.js, TypeScript) to accelerate lender onboarding by 30% and improve API performance by 20%

#### Engineering Contributions:

- Developed responsive dashboards and reusable **React/Next.js components** with Material UI, leveraging built-in and custom hooks to simplify state management and improve maintainability.
- Optimized backend performance with **PostgreSQL** (connection pooling, indexing, transactions, row-level locking) and **Prisma**, ensuring fast and consistent data access.
- Upgraded **Apollo Server v3 → v4**, removing legacy dependencies and improving server lifecycle management.
- Implemented **JWT-based authentication** middleware in Fastify to secure APIs.
- Automated operational workflows, reducing task completion time by 75% and boosting developer productivity.
- Introduced **Statsig feature flagging** for controlled rollouts, A/B testing, and safer deployments.
- Configured **Jest** with Apollo Server and wrote comprehensive unit tests for queries, mutations, and resolvers.

### Amazon — Associate

May 2021 - Jul 2022

- Worked as an Associate at Amazon**, contributing to **operational efficiency** and **team coordination** in a high-volume, fast-paced environment.
- Leveraged **data-driven decision-making** to optimize workflows and improve productivity.

## Personal Project

### Modular AI Agent Framework:

- Built a modular AI agent framework in **TypeScript OpenAI**, featuring a plugin-based tool system and Zod-validated function calling.
- Implemented **RAG (Upstash Vector DB)**, custom memory summarization, evaluation pipeline, and human-in-the-loop flows for scalable multi-tool reasoning.
- Integrated **Model Context Protocol (MCP)** to standardize context exchange, enable interoperability, and improve production readiness.

**EDUCATION:** Gokaraju Rangaraju Institute of Engineering & Technology - Bachelor of Technology - (8 GPA)