

NANDINI KAMEPALLI

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Focused on Agentic AI development and scalable backend engineering, including RBAC-secured architectures, JWT flows, and high-performance RESTful APIs with MongoDB. Delivered AI-driven automation that reduced authentication issues by 40% and automated up to 70% of task assignments. Built a voice-enabled, multi-agent food ordering system using FastAPI, LangGraph, Gemini, and local STT/TTS with 90%+ accurate conversational responses.

PROFESSIONAL EXPERIENCE

Zennial Pro Private Limited
Associate Software Engineer

April 2025– Present

- Developed scalable backend systems with RBAC, automated workflows, and 20+ RESTful APIs, improving operational efficiency by 35% and authentication reliability by 40%.
- Engineered a voice-enabled, multi-agent food ordering platform using Gemini + LangGraph with 90%+ STT accuracy, enabling hands-free ordering and contextual decision-making.
- Delivered a full-stack solution with intuitive dashboards, analytics, and secure JWT flows, reducing manual processes by 60% and improving end-to-end system usability.
- Tech stack: Python, FastAPI, LangChain, OpenAI API, MongoDB, Git, RESTful APIs

PROJECTS

Smart Food Ordering Assistant ([Github](#))

November 2025

- Built a full-stack, voice-enabled food ordering platform using FastAPI, LangGraph, LangChain, Gemini 2.5, React, and Tailwind, supporting seamless conversational ordering.
- Developed a multi-agent conversational AI assistant with Gemini 2.5 Flash that handles voice commands, intent routing, order placement, and contextual dialogue using local STT/TTS.
- Implemented a multi-role authentication & onboarding system (Customer, Restaurant Owner, Admin) with JWT, enabling restaurant owners to register businesses, manage menus, and track orders.

Task Tracking System([GitHub](#))

September 2025

- Developed an Agentic AI–driven Role-Based Task Tracking System (RBTTS) to automate task creation, assignment, and workload management, reducing project delays and manual intervention.
- Implemented role-based access control (RBAC) and real-time progress monitoring, ensuring accountability and transparency across all team roles.
- Integrated intelligent agents to dynamically analyze team workloads and reassign tasks based on priority and availability, ensuring balanced productivity across roles.

Responsive Personal Portfolio ([GitHub](#))

August 2025

- Developed a responsive portfolio optimized for various screen sizes, improving overall usability by 30% based on user feedback.
- Added interactive features such as smooth scrolling, hover effects and a typing animation, resulting in a 15% increase in user engagement using ReactJs and typescript.
- Leveraged HTML, CSS, and JavaScript to build features, achieving a 90% performance score during testing on Google Lighthouse for cross-device compatibility.

EDUCATION

Chebrolu Engineering College
Course: B. Tech, CSE(AI&ML), 8.03

2020-2024

SKILLS & OTHER

- Programming Languages: Python, Java
- Frameworks & Libraries: Flask, FastAPI, LangChain, LangGraph
- APIs & Integrations: RESTful APIs, OpenAI, Google APIs
- Databases: MongoDB, MySQL
- Tools: Postman, GitHub

CERTIFICATIONS

- LangGraph Essentials - Python- LangChain Academy- October 2025
- LangChain Essentials - Python- LangChain Academy- October 2025
- Artificial Intelligence - Udemy - July 2024
- Azure AI Fundamentals - Microsoft - October 2022
- AWS Cloud Foundations - Amazon Web Services Training and Certification - October 2022

ACHIEVEMENTS & AWARDS

- Placed third in KIMO EDGE-23 competition focused on cutting-edge technologies.