

SANNIHITHA GUDIMALLA

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SUMMARY

Full-stack Software Engineer with 2+ years of experience building scalable cloud and AI-driven applications. Creator of Recipe Genie, an AI cooking assistant powered by GPT. Proficient in Python, Java, React, and FastAPI, with expertise in system design, CI/CD, and AI integration. Seeking Software Engineer II role to deliver innovative full-stack or AI solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, bash
- **Web Technologies:** React, Node.js, FastAPI, Spring Boot, TailwindCSS, REST APIs
- **AI & tools:** OpenAI GPT Integration, Prompt Engineering
- **Cloud & DevOps:** AWS, GCP, Docker, Jenkins, CI/CD, Azure, Render
- **Databases:** MySQL, MongoDB, Redis, DynamoDB, Oracle, Elasticsearch
- **System Design:** Distributed systems, object-oriented design, serverless architecture, multi-threading
- **Practices & methodologies:** Git, GitHub, Agile/Scrum, CI/CD, Unit/Integration Testing

WORK EXPERIENCE

SOFTWARE ENGINEER I | NCR Voyix – Hyderabad, India | Jan 2022 – Dec 2023

- Contributed to the NCR Customer Loyalty Solution, a large-scale platform powering point-based, tier-based, and personalized loyalty programs for global retailers.
- Designed and developed core microservices for the Promotion Engine using Java (Spring Boot) and C++, reducing average transaction time by 20% and supporting millions of daily transactions.
- Built and integrated REST APIs to enhance POS and e-commerce system interoperability, boosting offer application accuracy by 15%.
- Optimized complex SQL queries and backend services, significantly improving data retrieval speeds and overall transaction performance.
- Diagnosed and resolved complex multi-threaded concurrency issues and memory leaks, increasing system stability by 15% and reducing downtime.
- Deployed and monitored GCP-based loyalty modules to ensure scalability and high performance.
- Orchestrated automated CI/CD pipelines using Jenkins and Git, increasing automated test pass rates by 40% and accelerating deployment frequency by 30%.

EDUCATION

Master of Computer Science | Illinois Institute of Technology, Chicago, IL | Expected December 2025

Relevant Coursework: Advanced Machine Learning, Big Data Technologies, Information Retrieval, Advanced Database Management, Data Preparation and Analysis

VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India

Bachelor of Technology, Computer Science, Jun 2019 - Jul 2022 | GPA: 3.7 / 4.0

PROJECTS

Recipe Genie – AI-Powered Cooking Assistant

Full-stack AI application providing personalized recipe generation and real-time cooking guidance

Live Demo: recipe-genie-frontend.onrender.com

- Architected and deployed a full-stack AI application that provides personalized recipe generation and real-time cooking guidance using OpenAI GPT Integration.
- Engineered a dynamic, ChatGPT-style conversational interface with React and TailwindCSS, featuring theme switching, chat history, and full message edit/delete functionality.
- Developed a robust FastAPI backend integrated with OpenAI's API to manage contextual, multi-turn dialogues and deliver intelligent recipe recommendations.
- Implemented secure Firebase Authentication (Google & Email) and Cloud Firestore for real-time data persistence and synchronization across user sessions.
- Deployed the complete system on Render with automated CI/CD pipelines, ensuring high availability and scalable performance.
- Enhanced user experience with a fully responsive mobile layout, international cuisine support, and WCAG accessibility compliance.
- **Technologies:** React, FastAPI, Firebase, OpenAI GPT-4o-mini, TailwindCSS, Render