SANNIHITHA GUDIMALLA

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SUMMARY

Full-stack Software Engineer with 2+ years of experience building scalable cloud and AI-driven applications. Ex-NCR engineer; optimized transaction systems used by major retailers. Creator of Recipe Genie, an AI-based cooking assistant using GPT and FastAPI. Skilled in React, Python, Java, CI/CD, and system design. Seeking Software Engineer roles to build high-impact 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.
- Enhanced user experience with a fully responsive mobile layout, international cuisine support, and WCAG accessibility compliance.
- **Technologies:** React, Python, FastAPI, Firebase, OpenAI GPT-4o-mini, Render