Marri Venkata Siva Naga Yaswanth

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SKILLS

- **Languages**:   Java, C++, JavaScript, C, PHP, Python, Laravel.
- **Frameworks**:   HTML and CSS, Bootstrap, NodeJS, React, Express, Angular.
- **Technologies**:   Linux, Jenkins, Docker, Kubernetes, Puppet.
- **Developer Tools**: Vs Code, AWS, Git, GitHub, Android Studio.
- **Soft Skills**:   Problem-Solving Skills, Team Player, Project Management, Adaptability.

PROJECTS

RAG System Project: Aug2025
- Developed a Retrieval-Augmented Generation (RAG) system to provide accurate, context-aware answers by querying a specialized knowledge base, significantly reducing model hallucinations.
- Engineered a data pipeline to ingest, process, and transform a large corpus of documents into a searchable vector index for efficient information retrieval.
- Designed and implemented the core logic to augment user prompts with relevant retrieved data, enabling the Large Language Model (LLM) to generate factually grounded and reliable responses.

Tech: Java, Spring Boot, React, Bootstrap, PostgreSQL, Vector Search.

Eco Waste: April 2025
- Executed a comprehensive analysis of municipal solid waste data to uncover critical trends in generation, composition, and disposal patterns across different zones.
- Constructed an interactive data visualization dashboard to present findings, highlighting geographical waste hotspots and recycling inefficiencies for key stakeholders.
- Formulated a set of data-driven recommendations for targeted policy interventions, projected to increase recycling compliance and reduce operational costs for waste management services.

Tech: Laravel, Composer, PHP, MYSQL

Recipe sharing Platform: July 2024
- Engineered a dynamic recipe-sharing platform using React.js, empowering chefs to upload and manage content with intuitive categorization and dietary filtering (e.g., Vegetarian/Non-Vegetarian).
- Architected a scalable, component-based front-end that supports advanced features, including a multi-criteria search engine (by ingredient, name, chef) and a personalized 'favorites' function to drive user engagement and retention.
- Implemented a fully responsive, mobile-first UI that improved page load times and ensured seamless accessibility and a consistent user experience across all desktops, tablet, and mobile devices.

Tech: React.js, Node.js, Express.js.

CERTIFICATES

- Cloud Computing – by NPTEL   June 2024
- DevOps: Planning and Production - by GFG.   May 2024

ACHIEVEMENTS

Technical Achievements: Jan 2024
- Developed and deployed scalable full-stack applications, including a Recipe Sharing Platform and an Online Courses Platform to enhance user engagement.
- Optimized performance, reducing loading times on mobile devices through efficient coding and responsive design.
- Enhanced search functionality using MySQL/MongoDB, improving recipe discovery and supporting a growing user base

Professional and Educational Achievements: Jan 2024
- Completed a DevOps internship at GeeksforGeeks (GFG), gaining hands-on experience in containerization, CI/CD pipelines, and cloud deployment strategies.
- Contributed to open-source projects on GitHub, demonstrating strong version control, collaboration, and problem-solving skills in algorithmic challenges.
- **Patent Filed:** *"Predictive Analysis of Culinary Duration"* – Successfully completed and filed a patent focused on using IoT and Machine Learning to estimate cooking time based on real-time parameters. *(2025)*

EDUCATION

Lovely Professional University   Punjab, India
Bachelor of Technology - Computer Science and Engineering; ***CGPA: 7.2***   *Since August 2022*

NRI Junior College   Guntur, Andhra Pradesh
Intermediate; ***Percentage: 75%***   *April 2020 - March 2022*

St. Laurel's School   Guntur, Andhra Pradesh
Matriculation; ***Percentage: 100%***   *April 2007 - March 2020*