Hitesh Reddy Buereddy

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Skills and Frameworks

Languages: Python, C++ , C, Java, HTML, CSS, JavaScript, R, MySQL, Bash

Software Development: Data Structures & Algorithms, Problem-solving, OOPS, ReactJS, ExpressJS, NodeJS, Django, FastAPI, Flask, REST API's, Version Control(Git), GitHub, Spark, PostgreSQL, MongoDB, JWT & OAuth Authentication

Cloud/DevOps principles: AWS (EC2, lambda, S3, RDS), Kubernetes, Docker, CI/CD Pipeline, Jenkins.

Technologies/Tools: JIRA, Postman, Informatica, StarUML, Insomnia, Selenium, LLM

Generative AI: LangChain, LangGraph, Prompt Engineering, CrewAI, Ollama, HuggingFace, RAG, NLP, LLaMA 3.3

Professional Experience

AI Software Engineer Intern | *Cognute Inc*   **January 2025 - May 2025**

- Architected a full-stack AI chatbot using React and FastAPI to automate and personalize real-time customer negotiations.
- Pioneered a multi-agent system with LangGraph and LLaMA 3.3, orchestrating complex workflows that cut conversation handling time by 45%.
- Optimized PostgreSQL queries and implemented custom function calling for live data retrieval, reducing average API response times by 20%.
- Engineered a robust security framework using JWT authentication and Role-Based Access Control (RBAC) to safeguard sensitive data across 5 user roles.
- Streamlined the development-to-production lifecycle by containerizing the application with Docker Compose, ensuring consistent and scalable deployments.

Software Engineer | *Emerging Computer Arena (ECA)*   **September 2021 - August 2023**

- Designed & enhanced a **responsive web application** for ECA Club at SNIST using **React.js & Django**.
- Upgraded **database queries & API endpoints**, reducing response times by **30%**.
- Enforced a **real-time score monitoring system** for coding competitions using **WebSockets** to enable instant updates and seamless tracking during bi-weekly contests.

Education

New Jersey Institute of Technology   **September 2023 – May 2025**

Master of Science in Computer Science (4/4 CGPA)   *New Jersey, USA*

Projects

Artifex | *MongoDB, ExpressJS, ReactJS, NodeJs, GIT, CI/CD pipeline*   **January 2025**

- Engineered a full-stack, multi-vendor e-commerce platform from the ground up using the **MERN stack**, implementing key features like product CRUD operations and distinct user roles for Buyers and Sellers **(RBAC)**.
- Planned and built a secure **RESTful APIs with Express.js, creating over 50 endpoints** to manage user data, product inventory, and orders while securing the system with JSON Web Token **(JWT) authentication**.
- Orchestrated a secure, end-to-end payment workflow by integrating the **Stripe API**, enabling users to complete transactions and sellers to manage incoming orders, demonstrating proficiency with complex third-party API integration.

PlanGenie | *React, Django, MongoDB, OAuth2.0, Agile, LangGraph*   **September 2024**

- Designed a **React-based** web application with **OAuth 2.0 authentication** following software development principles, enabling users to generate **AI-driven to-do lists** based on their input plans
- Developed a **Django REST API** backend integrated with **PostgreSQL** for user management and task data storage
- Leveraged **Llama 3.3-70B** to dynamically generate tasks with due dates, enhancing user productivity and planning.

Little Lemon Website | *ReactJS, Django, REST API*   **January 2024**

- Emerged a full-stack restaurant reservation system with **ReactJS** (frontend) and **Django** (backend).
- Architected state management solutions with React Hooks, resulting in a **30% reduction in data retrieval time**, which enhanced application efficiency and directly contributed to user satisfaction metrics..

Agriprotech | *CNN, Flask, HTML, Jupyter Notebook*   **June 2023**

- Built a Flask-based web application integrated with a CNN model to detect plant diseases from leaf images, achieving **90% classification accuracy**.
- Integrated a **GPU-optimized** TensorFlow model into the backend, accelerating image prediction speeds by 75%, enabling real-time processing and improving user experience.

Certifications

- AWS Cloud Practitioner - Foundational by Amazon Web Services Training and Certification
- AWS Developer - Associate by Amazon Web Services Training and Certification
- Meta Full Stack Engineer Certificate by Meta
- Neural Networks and deep learning by DeepLearning.AI