

# P NAGA SIDDARTHA REDDY

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## SUMMARY

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Backend-focused Full Stack Developer with hands-on experience building real-time IoT dashboards and embedded system integrations on a contract basis. Skilled in Node.js, React.js, UDP networking, and microcontroller communication. Strong foundation in system design, networking, and scalable web architecture.

## EXPERIENCE

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### Software Developer ( Contract )

#### Aadivakula Electronics

Bengaluru | Dec 2024 – Present

- Engineered a real-time IoT dashboard managing 10+ relay devices with <50ms latency using UDP and Socket.IO.
- Implemented secure role-based authentication with synchronized multi-session state management.
- Built event-driven backend architecture for real-time monitoring and control of embedded systems.
- Developed live data visualization for relay states and system health tracking.
- Integrated Node.js server with microcontroller firmware via custom UDP protocol for high-speed command execution.
- Improved system reliability through structured error handling and fail-safe mechanisms.

### DevOps Intern

#### Procorp

Hyderabad | May 2024 – Nov 2024

- Worked with Docker, Jenkins, Git, and CI/CD pipelines for build and deployment automation.
- Assisted in AWS EC2-based deployments and environment configuration.
- Gained hands-on exposure to infrastructure automation and release workflows.

### Software Engineering Intern

#### Evolute-IQ

Bengaluru | June 2023 – Aug 2023

- Developed a cloud kitchen management system using modular low-code architecture.
- Reduced development time by 60% through component-driven design.
- Implemented order tracking, inventory management, and workflow automation features.

## PROJECTS

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### AI-Powered Website Builder

<https://github.com/SiddarthaPoola/Webbloom>

- Built an AI-driven platform that dynamically generates project structures and code using LLM APIs.
- Developed React.js frontend and Node.js backend for AI-based step generation workflows.
- Integrated WebContainer API for in-browser code execution and real-time preview.
- Designed dynamic file management and code editing system similar to lightweight IDE environments.

### Cloud Kitchen Management System

- Developed a web-based kitchen management system for order tracking, inventory control, and workflow automation.
- Designed RESTful APIs and database schema for managing orders, stock levels, and customer feedback.
- Implemented modular architecture improving feature scalability and maintainability.
- Reduced manual order processing through centralized digital management system.

## Library Management

[https://github.com/SiddarthaPoolal/Library\\_Management](https://github.com/SiddarthaPoolal/Library_Management)

- Designed and developed a full-stack web application for managing library resources using React.js, Node.js, CSS, and MongoDB.
- Implemented features such as book tracking, user authentication, and digital asset management, improving operational efficiency by 30%.

## EDUCATION

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### Manipal University Jaipur

BTech in Information Technology • 2024 • 8.23

## CERTIFICATIONS

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Generative AI for Software Development – **Coursera**

Mastering Data Structures and Algorithms - **Udemy**

Data Base Foundations - **Oracle**

## INVOLVEMENT

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**Manipal University Jaipur**- Organized and participated in competitive programming Codeathons—CryptX, CodeGlitz & Hackraft as part of the Randomize Club.

Member of the Sponsorship Committee at **Oneiros'22**, the annual cultural fest of Manipal University Jaipur.

## EXPERTISE

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**Programming Languages:** JavaScript, C/C++, Java

**Frontend:** React.js, HTML5, CSS3, Tailwind CSS

**Backend:** Node.js, Express.js

**Databases:** MongoDB, MySQL

**DevOps & Cloud:** Docker, AWS EC2, Git, Linux

**Core Concepts:** Data Structures & Algorithms, REST APIs, WebSockets, TCP/UDP Networking, JWT Authentication, Event-Driven Architecture