

# ANTHIREDDY SIDDHARTH REDDY

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## Education

<b>B.Tech in Electrical and Computer Engineering</b> <i>Amrita Vishwa Vidyapeetham</i>	<b>2021 – 2025</b> <i>CGPA: 9/10</i>
<b>Telangana State Board of Intermediate Education</b> <i>Sri Chaitanya Group of Institutions</i>	<b>2019 – 2021</b> <i>Percentage: 96.6%</i>
<b>Telangana State Board of Secondary Education</b> <i>Thushara High School</i>	<b>2018 – 2019</b> <i>CGPA: 9.3/10</i>

## Experience

### AI Full Stack Developer at SymboSystems Oct 2024 - Present

- Led the development of an advanced AI system leveraging large language models (LLMs) and multimodal interactions, integrating cutting-edge AI technologies to deliver seamless user experiences by rendering UI like forms, cards, carousels etc.
- Engineered distributed training and inference pipelines, incorporating Claude and GPT models with a custom Retrieval-Augmented Generation (RAG) architecture utilizing FAISS for efficient vector storage and retrieval.
- Designed and implemented a real-time audio-visual processing pipeline by integrating Deepgram for speech-to-text and LiveKit for low-latency streaming, enabling responsive, multimodal user interactions.
- Developed and optimized multi-model inference systems using LangChain and LangGraph for sophisticated workflow orchestration, achieving efficient AI model integration.
- Achieved significant latency reductions through comprehensive caching and state management strategies using Zep memory, enhancing system responsiveness and user satisfaction.

### Freelance Frontend Developer for The Magic Oven Jul 2023 - Apr 2024

- Translated UI designs from Figma into responsive code, collaborating with the client and UI/UX developers to meet stringent project deadlines.
- Coordinated with the backend team to ensure smooth integration of frontend components, ensuring the timely launch of the product, which contributed to its success.
- Delivered custom, high-quality websites utilizing technologies like HTML, CSS, React.js, and Next.js, ensuring both desktop and mobile responsiveness.

## Projects

### Meeting scheduler agent Oct 2024 - Nov 2024

- Developed an AI-driven full-stack chat application leveraging FastAPI and ReactJS, integrated with ChatGPT APIs for dynamic, context-aware interactions. The application uses tailored prompts to simulate a relatable agent capable of interpreting and rendering interactive components like forms, cards, and carousels based on user input.
- Implemented data collection and contextual understanding to power a Retrieval-Augmented Generation (RAG) system, delivering personalized product recommendations and details based on user preferences.

- Integrated Google Calendar API to enable users to schedule consultations with experts, enhancing the application's utility for detailed discussions.

### **Cricket Player Performance Analysis | *Python, Machine Learning*** **Jun 2024 - Present**

- Developed a machine learning model to predict batsman's scores based on pitch type, opposition bowlers, stadium, and past performance, achieving 87% accuracy with XGBoost.
- Conducted comparative analysis with Random Forest, confirming XGBoost's superior performance, leading to a 15% improvement in prediction accuracy.
- Envisioned future enhancements to include additional features like strike rate and fitness levels for more accurate predictions and extended scope to user-interactive web applications.

### **Remote Forest Fire Sensing using IOT | *Deep Learning, Arduino*** **Apr 2024 - May 2024**

- Engineered an IoT-based early detection system for forest fires by integrating smoke detectors, terrestrial cameras, and microcontrollers.
- Implemented a backend with a trained model achieving 96.5% accuracy to analyze captured images and predict fire presence, enabling timely alerts.
- Utilized Arduino with a WiFi module for real-time data transmission and alarm activation at both the control center and remote locations, enhancing response efficiency.

## **Skills**

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**Languages:** Python, C, JavaScript, HTML/CSS, SQL

**Tools:** VS Code, AWS, Git, Android Studio.

**Frameworks/Technologies:** Linux, React.JS, Next.JS, Node.JS, Express.JS, MongoDB(nosql), PostgreSQL, Flask, Tailwind CSS, Rest API

**CS Fundamentals:** OS, DBMS, Computer Architecture, Computer Networks, OOPS

## **Extra Curricular**

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### **Bi0s Hardware** **Jan 2023 - Jul 2023**

*Hardware Cybersecurity Club*

- Redesigned the UI for WiFi Pineapple hardware to present captured user data (text and images) more clearly on a dashboard, showcasing how open networks can capture and misuse user information.
- Led the development of an ethical hacking project demonstrating the risks of open WiFi networks, aimed at educating users about cybersecurity threats.
- Served as the tech lead for the web development team, designing and developing the bi0shardware.in website to enhance the club's online presence and provide detailed information for new members.

### **amFOSS** **Nov 2021 - Nov 2022**

*FOSS & Computer Science Club*

- Gained hands-on experience with technologies like Flutter, Django, Full Stack Development, and web scraping using Selenium, while creating Python bots for email scraping and Discord integration.
- Collaborated in team-based hackathons, focusing on enhancing teamwork, communication, and presentation skills through weekly presentations and daily updates.
- Led Full Stack Development efforts, including the creation of the Traboda Pentesting landing page, after choosing Full Stack Development as a primary area of focus.