



Karthik Sarvan

Hi, I'm Karthik, an Electronics and Communication Engineering student with a keen interest in computers, software, and embedded systems. Eager to delve into the intersection of technology and innovation, I am committed to learning and contributing to these dynamic fields.

karthiksarvan.me

Contact

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Pendurthi, Visakhapatnam,
Andhra Pradesh India 531173

Education

(Current)

Bachelor of Technology (ECE)

SFS High School Visakhapatnam.

2024

Diploma in ECE

Gov. Polytechnic Pendurthi

2021

Schooling

SFS High School Visakhapatnam.

Expertise


- C/C++
- MERN Stack
- Linux
- Networking
- Git


Language

English

Telugu

Hindi

 [@karthik-sarvan](https://github.com/karthik-sarvan)

 [@karthik-sarvan](https://www.linkedin.com/in/karthik-sarvan)

Experience

2024 (September) - 2024 (Current)

READY | Visakhapatnam, Andhra Pradesh, India, 530013

MERN Stack Developer

Currently as an Embedded Systems Software Developer Trainee.

I have learnt C, Embedded C, Electronics, STM32 programming, PLC ladder logic programming, learning about the ARM types of microcontrollers and microprocessors, Assembly language basics and covered most of the electronics and electrical basics.

Learning about Linux and other OS level basic concepts.

It has been a great experience here.

2023 (December) - 2024 (March)

MyAccess | Visakhapatnam, Andhra Pradesh, India

Embedded Systems Trainee

Currently as an Embedded Systems Software Developer Trainee.

I have learnt C, Embedded C, Electronics, STM32 programming, PLC ladder logic programming, learning about the ARM types of microcontrollers and microprocessors, Assembly language basics and covered most of the electronics and electrical basics.

Learning about Linux and other OS level basic concepts.

It has been a great experience here.

2023 (June) - 2023 (December)

SPOTMIES | Visakhapatnam, Andhra Pradesh, India, 530013

React developer Intern

I did Internship here as a Web application developer (MERN) stack.

I have learnt react, MongoDB, Git, nodejs, express and other technologies here. It has been a great experience working here. Our team worked on a product called Ready which is an AI based interview maker, which is made for practicing interviews.

Interests

- Embedded Linux
- Computer Architecture
- Kernel Development
- Low level Development

Projects

- **Gyro Virtual Object Controller (Currently Working)**

- Controller Used (STM32 Discovery Board). This board has a Gyro sensor that can sense the movement angle and Position. So I decided to make a project that can control the 3d model in the Computer wirelessly via Internet.
- I'm still working on this project.

- **AI Assistant (Breaking the Language Barriers)**

- This is a web based AI assistant that can respond for any language you speak. It also Plays songs for you. This is made purely in HTML, CSS and JS. I haven't used React since this might be a heavy application and increase the load on the server.

- **Bare metal (STM32) DS18B20 Sensor Interfacing with ESP32**

- I have used the STM32 for interfacing the Temperature sensor DS18B20 for retrieving the values and then interface it with the ESP32 for making it locally hosted. and then created a page using HTML, CSS and JS to display the actual temperature value

- **Plant Water Supply Automation**

- This is a project that is used for securing a plant by supplying the water by sensing the water level content in the soil and Moisture level content in the water and giving the feed back in the web application.

- **Certificate Management System**

- This is a MERN stack Project. This is a college project. This is used for storing the students details and certificates. This is a group project. I have been working on the Backend using MongoDB as database and express and Node js as server.
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