

Anirudh Sriharshan

Engineer

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About

Hello everyone! Myself Anirudh Sriharshan, an Electronics and Communication Engineering student from JSS Academy of Technical Education, Bangalore. I have experimented with the domains Cyber Security, Embedded System and Programming using C++. Even though my experiences are limited I am keen and enthusiastic to learn new things and expand my knowledge and skills.

Skills

Python

C

Object-Oriented Programming

Data Structures & Algorithms

Computer-Aided Design (CAD)

MATLAB

IOT

C++

Team Collaboration

Work Experience

JSS Academy of Technical Education

Dec 2022 - Present

Student

I have experimented with the domains Cyber Security, Embedded System and Programming using C++. Even though my experiences are limited I am keen and enthusiastic to learn new things and expand my knowledge and skills.

C++

Education

Ahalya Bai's High School

Jun 2019 - Aug 2020

10TH

SGPTA Composite PU College

Apr 2021 - Jun 2022

12TH/PUC

J.S.S. A.T.E BANGALORE

Aug 2022 - Present

ENGINEERING

Projects

JSS Academy of Technical Education

Sep 2024 - Dec 2024

Detection of Combustible Gasses using Smart Nose to Alert the User of Leakage

This project presents Smart Nose, a real-time gas detection system for residential and industrial safety. Using MQ-2 and MQ-6 sensors with an Arduino UNO, it detects LPG, propane, and smoke at predefined thresholds, triggering distinct buzzer alerts. Designed for high sensitivity and low power consumption, it enhances safety with multi-gas detection and customizable alerts. Future upgrades include wireless monitoring and expanded gas detection capabilities.

C++

Arduino IDE

JSS Academy of Technical Education

Mar 2025 - Present

An Efficient Machine Learning based Algorithm for Energy Switching and Theft Detection in Smart Grid

It is a smart power grid system, with smart source switching and power theft detection. We make use of Machine Learning Algorithm to choose the best power source (ie:HydroElectric,Solar,Wnd) for that interval of time and day. It choose the best source by different factors such as Time of Day, Constant power generation, Cost etc. It switches to the different sources dynamically and automatically.

It can also do Power Theft Detection by calculating a pre-transmission power demand value and using Machine Learning Algorithm to compare it to the meter reading and to find any power theft between the lines.

Python

Machine Learning

MATLAB

Simulink

Certifications

Adverk Technologies

Oct 2023 - Nov 2023

Cyber Security & Ethical Hacking

It was a 2-month course on Cyber security and Ethical Hacking where we learnt theory as well as making a mini project(a ppt presentation on Cyber Kill Chain) and a major project(1.Creating a malware using Metasploit and performing static and Dynamic Analysis using it.

2.Creating a VAPT report on 2 websites using OWASP ZAP)

Ethical Hacking

Pentest Report

Math Works

Feb 2024 - Feb 2024

MATLAB Onramp

MATLAB

Math Works

Nov 2024 - Nov 2024

Object-Oriented Programming Onramp

Object-Oriented Programming

MATLAB