

# Aditya Kumar Singh

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github.com/ramrap62?tab=repositories

B.tech student at VIT, Amaravati. Learning and working experience with C++,Python ,Java , Python flask, MySQL workbench,AWS EC2 and having good knowledge of Data structure & Algorithms, OOPs. Also familiar with HTML,JS,Linux,WireShark and Machine Learning.

## EDUCATION

### B.Tech

Vellore Institute of Technology, Andhra Pradesh

2017 – 2021

CSE with specialization in Networking and Security

– 8.33

### Senior Secondary School

Kendriya Vidyalaya Danapur Cantt

2014 – 2016

12th

– 74%

### High School

Kendriya Vidyalaya Danapur Cantt

2014

10th

– 8.20 CGPA

## PROJECTS

### NN - Google Chrome Extension (11/2019 – 01/2020)

- A Google Chrome Extension that detects NSFW images on the web page and blocks it before the page loads.
- With Nudenet Classifier python script running on server which classifies images as SFW and NSFW.
- Client side sending Image URLs to server script in a json file and receive classified images and blurs out the NSFW images.

### Autonomous trash collector (12/2018 – 03/2019)

- Using object detection to detect trash (likes cans,bottles,wrappers) and collect it using mechanical blades.
- Tensorflow pre trained model used for object detection
- mechanical part includes a small RC 4 wheeled attached with rotating blade at front.

### Short-Ranged Mobile Signal Jammer

(07/2018 – 11/2018)

- A prototype Jammer model with raspberry-pi to jam CDMA and GSM signals.

### Surveillance Drone (12/2017 – 03/2018)

- Using raspberry-pi,a surveillance drone with the ability to capture images and videos.
- And live Video stream on smart phone.

### Home security System (07/2017 – 11/2017)

- Security system using PIR sensor.
- GSM module is used to provide security and control over system from anywhere, using arduino.

## SKILLS

python

C++

Java

SQL

Data Structure

Team Player

Communication

## ACHIEVEMENTS

Expresso - The painting Competition (01/2019)

3rd place

WebHunt 404! (03/2019)

Team standing in Top 5

VITality - Hackathon (10/2018)

Winner

National Children Science Congress,Kendriya Vidyalaya (2011 – 2015)

2 National participation and 1 regional.

## PERSONAL PROJECTS

AES Encrypted Server-Client Chat using pyaes and socket. (11/2018)

Everytime connection is established using different set of 24 bit key, which is exchanged between client and server just after the connection and is used to decrypt the transmitted message.

A Task Manager Web App with Python using Flask, WTForms and SQLAlchemy (2020)

A web task manager with features like add task,edit task and remove. Also used Jinja templates.

## INTERESTS

Portrait Sketching

Competitive Coding on Leetcode.

Reading r/AskReddit