

PRAKHAR GURUNANI

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I care a lot about Open Source Software, writing simple and beautiful code, architecture design and documentation.

Education

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Civil Engineering

2021 – 2025

Pilani, Rajasthan, India

Accomplishments

Google Summer of Code 2022

May 2022 – September 2022

52°North - Python client for OGC Maps API

- OGC Maps API provides crucial information for analysing maps and map data. The geospatial data is currently fetched using REST APIs, and each time the parameters have to be passed manually. A better way to handle this would be to dynamically pass the parameters.
- The idea is to create a Python client that will enable devs to GET/POST data by using the python wrapper in their code. Requests to the API can also be made through a CLI tool developed specifically for the API.
- The main goal is to integrate the Maps API into a single client that is extensible in the future to add other endpoints.

2020 China US Young Maker Competition

March 2020 – June 2020

Smart Hand Glove - Most Practical US Based Project

Hackster.io

- Made a smart hand glove to help the hearing and speech impaired children learn and communicate normally by means of sign-language.
- converts hand gestures to electrical signals which can be sent to a micro-controller that converts the signals into alphabets or commands.
- Accelerometer sensor supports the micro-controller to sense the gestures. The micro-controller maps these analog current signals and accelerometer values to codes corresponding to each gesture.
- Codes mapped by the micro-controller are processed by the receiver so that the laptop can show the detected text on the screen. It can also convert the speech to text which can be played by a speaker.

2019 China US Young Maker Competition

May 2019 – June 2019

Trashware - Most Practical US Based Project

Hackster.io

- A smart dustbin which uses image recognition to identify recyclable and non-recyclable waste and separate them in 2 different bins.
- Uses ultrasonic sensor to identify objects within 30 cm and capture images for further processing
- Servo motor turns left/right to separate the waste depending whether the waste is recyclable/non-recyclable.

Projects

G-Meet Auto Join | *Chrome Extension*

- A Chrome extension to automatically join Google Meet meetings
- Automatically saves meeting information for recurring meetings
- Automatically leaves the meeting after the user specified duration

PyPSI | *CLI Tool*

- Python wrapper for Google PageSpeed Insights API
- Generates metrics for performance of a web page on multiple devices
- Created a CLI tool to access it from the command line
- Made an API for the same for using in python scripts

Newsafe | *Android App*

- Created a news app for the Android ecosystem using React Native and Android Studio
- Uses NewsAPI to fetch news articles
- Includes multiple categories of news and search functionality
- Uses system theme for automatically switching between between light and dark mode

Skills

Languages: Python, JavaScript, Solidity

Platforms: Google Cloud, AWS, Docker, Unix, Android

Frameworks: React, React Native, Node.js, Flask, Django