Pranav **Gupta**

Android Developer · Problem Solver · Web Developer

B.Tech 3rd Year Undergraduate at Indian Institute of Technology Mandi

☐ (+91) 8629015392 | ✉ pranavgupta4321@gmail.com | ⌂ pranavgupta1234.github.io | ⌨ pranavgupta1234 | ⬚ pranavgupta1234

"If Opportunity doesn't knock, build a door."

Education

Anand Swaroop Arya Saraswati Vidya Mandir   *Roorkee, Uttarakhand*

High School 10 CGPA | Intermediate 95.20%   *Mar. 2013 | Mar. 2015*

- Awarded title of School Topper in both classes

Indian Institute of Technology Mandi   *Mandi, Himachal Pradesh*

B.Tech. in Computer Science and Engineering | Current CGPA **8.99**   *Aug. 2015 - PRESENT*

- Awarded title of Branch Topper in Ist year of Engineering

Courses

Completed and Undergoing   *IIT Mandi*

Data Structures and Algorithms · Pattern Recognition · Artificial Intelligence

Database Systems · Computer Organization · Large Application Practicum · Communicating and

Distributed Processes

Projects & Work Experience

Object Detecting Autonomous Quadcopter : Design Practicum, IIT Mandi   *Mandi, India*

Machine Learning | Object Tracking and Detection   *Feb. 2017 - Jun. 2017*

- Built a Multicopter from scratch using programmable ESC's, RaspberryPi and Ardupilot along with Gimbal setup for better camera stability.
- Implemented real time video streaming from a Raspberry Pi server installed on Multicopter using OpenCV API to a remote computer and then managed to run Machine Learning algorithm Struck for object detection.
- Achieved copter tracking through an installed GPS on the copter and transmitted commands through a six channel transmitter-receiver.
- Faced and resolved common issues like video transmission latency, power distribution, and load balancing.

Challan Application : HPPoliceAssistant   *Mandi, Himachal Pradesh*

Android Developer & Database Manager   *Dec. 2016 - PRESENT*

- The objective of this android application is to collect and organize data of various vehicles passing through Police Checkposts and automate the task of taking challan for those who break traffic rules.
- Application developed in Java with various libraries(like Picasso for image caching) to optimize the application performance.
- Google Location API integrated to track the location and Google Firebase (BaaS) for data management at the backend.
- Integration of Bluetooth printing ability using API of Bluetooth Printer SDK for Android.

Meter Reader : IIT Mandi   *IIT Mandi*

Development of REST API | Android Application | Web Portal   *May. 2017 - PRESENT*

- This project aims at automating the task of taking electricity meter readings from various places in IIT Mandi through an Android Application.
- Developing a REST API and exposing the database through different endpoints.Used Amazon AWS as IaaS (Infrastructure as a Service).
- Created an Android Application(for the tablet) and consumed the API endpoints to update the readings taken from various electricity meters.
- Building a Web Portal to generate electricity consumption sheets and perform analytics.

PlaceItNow : Mini College Startup   *Mandi, India*

ANDROID APPLICATION & UI/UX DEVELOPMENT   *Dec. 2016 - Mar. 2017*

- Project involved development of an android application for our college meant to sort out the problem of waiting for food in queues at canteens.
- Uses Google Firebase for data management and strictly follows Material Design Pattern in UI/UX.Implemented background services for better user experience.
- The application is available on Google Play store and source code on GitHub.

Intranet Social Networking Website : IIT Mandi   *IIT Mandi*

WEB DEVELOPMENT | DATABASE MANAGEMENT   *Feb. 2016 - Jun.2016*

- Developed a small scale social networking website in a team of 3 targeting only college audience.
- Implemented basic functionalities like create an account, post, comments, like, etc under Database Practicum course.
- Database in MySQL with PHP for server side scripting.Used technologies like MDL for UI/UX and AJAX in client side scripting.

Source code for all the above projects is available on my GitHub account and description of some repositories can be explored on my personal website: pranavgupta1234.github.io

Google Play Developer

ReactiveApps   *India*

IMAGE COMPRESSOR   *Feb. 2017 - PRESENT*

- Registered as a developer on Google PlayStore under the name ReactiveApps.
- Launched first application named Image Compressor which is a utility application to reduce the size of your images.
- The application has a current rating of 3.5 and over 5 thousand downloads.

Developer at ODK (Open Data Kit)

OPEN SOURCE ENTHUSIAST

2017   **ODK has been part of Google Summer of Code**   *Android*
                                                                     Development

Skills,Competences and Languages

Android Development   *Libraries | Frameworks | Utility*

TAGS

- Java · Firebase · XML · Gradle (Automated Build System) · Material Design Pattern · REST API · GSON · JSON · SQLite · Volley · ButterKnife · Reactive Extensions · Third Party UI/UX libraries

Web Development   *Libraries | Frameworks | Utility*

TAGS

- HTML · CSS · PHP · MySQL · JavaScript · jQuery · BootStrap · LAMP · NodeJs · MDL · Third Party UI/UX libraries

Data Structures and Algorithms   *General*

TAGS

- C · C++ · Algorithms

Systems, Networking and Version Control   *Tools | VCS | Security*

TAGS

- GitHub · BitBucket · Kali Linux · WireShark · Metasploit · NMAP · DDOS