

# SIDDHARTH ANAND SRIVASTAV

## Software Developer

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## EDUCATION

### B. Tech in Electronics Engineering

📅 IIT-BHU, Varanasi

📍 August 2019 - May 2023

## WORK EXPERIENCE

### Software Development Intern at Acadza Innovations Pvt. Ltd

📅 September 2020-October 2020 Work From Home

- Worked on the backend of an android application for this EdTech Startup.
- Developed algorithm to recognise text from printed questions papers and hence extract questions and answer key. Used image processing techniques and OCR for the same.

### Software Developer at TeKrishi

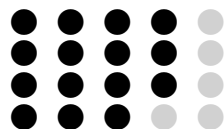
📅 May 2020 - Present

📍 Ayodhya , India

- TeKrishi is an early stage startup incubated in CIE, IIIT Hyderabad. It is an Android application for the farmers currently running in Ayodhya, India. It provides rental farming machinery through service providers registered through the application.
- Worked with the team to develop the android application, worked on the backend to integrate firebase database and helped in the UI design of the app.

## SKILLS

C++, C, Python, Data Structures  
Tensorflow, Java, OpenCV, Firebase  
Machine Learning, Android  
Kotlin, Git



## RELEVANT COURSEWORK

- Data Structures and Algorithms
- C Programming
- Deep Learning in Computer Vision
- Android App Development in Java

## EXTRACURRICULAR

- Active Member of Robotics Club , IIT-BHU
- Design Coordinator of Departmental Fest UDYAM, IIT-BHU

## PROJECTS

### TRY-IT A Virtual Dressing Room

Java, OpenCV, Tensorflow, Python Flask, Selenium

- Android Application for trying various outfits. Estimates key body features during camera preview. The outfit is placed on screen by calculating its size and position using estimated features. Contains features like sharing outfits directly from online stores. Implemented API in Flask to return scraped image to the application for previewing.

### Handwritten Hindi Word Recogniser

Computer Vision, Opencv, CNN

- This aims at classifying handwritten devanagri letters into 36 classes. The dataset consisted of 61200 32X32 images. The CNN model has been currently trained only for the consonants, vowels can also be added. Takes an input image of the handwritten words and predicts the text.

### Credit Card Number-Reader

OpenCV, Keras, LeNet CNN

- Includes data-set creation using augmentation, training the model, extracting credit card using Canny and identifying the digits using the Model created.

### Driver Drowsiness Detection

OpenCV, facial landmark detector

- A computer vision system that can automatically detect driver drowsiness in a real-time video stream and then play an alarm if the driver appears to be drowsy. Eye Aspect Ratio is calculated using facial landmarks to check for drowsiness.

### LearnToCODE Android App

Java, gradle, YoutubeAPI, Retrofit

- Android application (using YoutubePlayerView) that lists out the playlists from popular youtube channels like Google Developer India, Flutter, Tensorflow etc. for the learners to help them find it easily at a single place.

### Mandalorian Game in python CLI

OOPS, Python

- A fun game written in python where you dodge obstacles, collect coins, use shields and powerups, and later in game to finally defeat a mighty flame throwing dragon.

## ACHIEVEMENTS

- Programming :
  - Codeforces: SidAnand, Rating: Specialist (1403 max)
  - Hash Code 2021: Qualification Round Rank : 5633
- Pre-finalists at Flipkart GRID 2.0 Robotics Challenge
- Winner of Intel AI Mini Challenge at 20/20 Vision Hacks organised on Hackerearth
- Successfully completed the problem statement of E-Yantra Robotics Competition 2021
- JEE 2019: AIR 4109 (Mains) and AIR 2935 (Adv.)