

SHIVANSH ANAND SRIVASTAVA

Software Developer

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shivanshanand

EDUCATION

B. Tech (Honours) in Computer Science and Engineering

IIIT - Hyderabad

July 2018 - May 2022

WORK EXPERIENCE

Software Developer in Design and Analysis of Software Systems Team

January 2020-April 2020 Hyderabad, India

- Worked for an industry client as a part of our DASS course project.
- Developed front-end in React for the mass mailing web application. Used methods like Agile software development, Class diagrams and Use-case diagrams.

Head of Development Team at Krishi Sevak

May 2020 - Present Ayodhya, India

- **Krishi Sevak** is an Android application for the farmers currently running in **Ayodhya, India**. It provides rental farming machinery through service providers registered through the application.
- Won SummerUp 2020, organized by E-Cell IIIT-H, in collaboration with Walmart.
- Developed it in Java along with OpenCV and used Firebase for database.

Honours Research Student @ Lab for Spatial Informatics, IIIT-Hyderabad

June 2020 - Present Hyderabad, India

- Currently working on Road Object Extraction from high resolution satellite imagery under Professor Dr. KS Rajan.

SKILLS

C++, React, ML, Python, OpenCV
Tensorflow, Java, My-SQL, Firebase
GitHub, Selenium, MySQL
MongoDB, Numpy

RELEVANT COURSEWORK

- **Computer Science** : Design and Analysis of Software Systems, Machine Data and Learning, Spatial Informatics, Structural Modeling in AI, Computer Systems Organization, Data Structures and Algorithms, Computer Systems Engineering-1
- **Mathematics** : Probability and Statistics, Introduction to Information Security, Introduction to Quantum Information and Computation, Linear Algebra, Discrete Structures

EXTRACURRICULAR

- Member of App Development-Team for our college fest Felicity 2020.
- Member of Abhivyakti Club, IIIT Hyderabad.

PROJECTS

TRY-IT A Virtual Dressing Room

TensorFlow-lite, Java, OpenCV, SQLite

- 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.

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.

Hand Written Digit Recognition

OpenCV, KNN, MNIST

- A comparative study of Digit Recognition using KNN and MNIST dataset. Consists of two methods- One using KNN, and other using MNIST data-set.

Laziness Detector

OpenCV, dlib

- Detects yawning using facial landmarks and the changes in distance between lips.

Automatic Number Plate Recognition

Python, OpenCV, pytesseract

- Uses OCR Reading to recognise the number plate fed to it after image sharpening and noise removal.

Mandalorian Game in python CLI

OOPS, Python

- Command line game in python. Follows OOPS concept.

Video Center - DBMS Project

Python, MySQL

- Has features like user authentication, admin login, like, report, delete similar to YouTube. Queries are processed using pymysql.

Bulk Order and Purchase WebApp

MERN stack

- Application where seller could host, sell and dispatch products when there are enough orders.

ACHIEVEMENTS

- **Programming** :
 - **Codeforces**: Handle: Shivansh12, Rating: Expert
 - **Codechef**: Handle: shivansh339, Rating: 4 Star (1867). Secured 194 rank in September Long Challenge 2020.
 - **HackerCup 2020**: Qualified for Round 1 with 737 rank
 - **ICPC 2019**: Secured 1803 rank in Online round
- **JEE 2018**: AIR 339(Mains) and AIR 4277(Adv.)