

Simarpreet Singh

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ABOUT ME

I am passionate about technology and communities. I like to convert and present my ideas to product, for which I am always learning one thing or the other. Because of this I have learnt C++, Java, had built projects and products using Python, OpenCV, Scrappy, Selenium, ML. Now a days exploring Web3 and Blockchain space, learning Front end Web Development using React and trying to convert my ideas into presentable sites.

Currently working in Front end Development, research field of Reversible Data Hiding using PVO, Cryptography in images and multimedia files, and Blockchain.

EDUCATION

Bachelors of Technology, CSE

Guru Tegh Bahadur Institute of Technology

08/2018 – 07/2022 | New Delhi, India

Pursuing Btech in CSE from GGSIPU.

CGPA : 8.2

Class 12th

Guru Harkrishan Public School, Shahdara

2017 – 2018 | New Delhi, India

Completed my class 12th in Science-Non Medical.

CBSE Board : CGPA : 8.3

Class 10th

Guru Harkrishan Public School, Shahdara

2015 – 2016 | New Delhi, India

CBSE Board : CGPA : 8.6

INTERSHIPS AND OPEN SOURCE CONTRIBUTION DRIVE

Research Trainee Intern

Defense Research and Development Organisation, (DRDO, MoD)

02/2022 – 06/2022 | New Delhi, India

Research Trainee Intern at Scientific analysis Group, DRDO. Researching and working on Reversible Data Hiding in images and multimedia files using steganography and cryptography.

Working on Survey papers for Blockchain

Technical Content Writer

The Sidepath

04/2021 – 06/2021 | New Delhi, India

My role was to write, review and deliver content for technical articles to be published on website or newsletter.

Open Source Contributor

Student Code-In

06/2020 – 08/2020 | New Delhi, India

In Top 25 contributor of Student Code-In's 3 month contribution drive, where I contributed by creating tutorial notebook for German to English translator using seq2Seq and Attention model

CERTIFICATIONS

- Responsive Web Design, freeCodeCamp.org
- Placement Preparation Program, Pepcoding
- Python For Vision and Detection : OpenCv Python
- Data Analysis with Python, Jovian.ml

PROJECTS

Auctioneer

- Live auction app created using React and storage and authentication using Firebase.
- Live bidding and top bidder can be seen on the platform along with creating new auctions.
- Payment gateways will be integrated soon

OpenBoard Clone

- Developed a customized OpenBoard clone by implementing Canvas API and Browser Module
- Structured the UI using HTML, CSS and for real-time drawing on board used Socket.io
- Utilized Express.js server

Virtual Tweet Gallery

Memory collection from tweets posted using specific hashtags

Tweet gallery is a project with 2 parts:

- A tweet bot that retweet & likes all tweets with a hashtag
- A virtual gallery website that contains random tweets that are trending on that hashtag
- Sponsored section gallery and live profile tweets from bot account also included in the site
- Bot made using Python, Tweepy, Website made using HTML, CSS, Vanilla JS

Restaurant Menu

- Restaurant Menu Website Made using React.js
- Multiple card/page implementation on single page

What's Weather there?

- A weather check app made using React,
- Used openweathermap api for fetching weather and data of different cities worldwide.

Automated GeoLocation Scrapping

Extracting geolocations of all nearby restaurants from a given location and updating in Csv file on GrabFood.

- This was the most exciting and challenging project for me because there's only calculated distance from the location given on website, but not the actual Coordinates.
- Made using Selenium, Python

SKILLS

Java, CPP,

Python (Image Processing OpenCV Numpy Pandas Scrapy Selenium),

Blockchain (solidity),

Web Development (HTML CSS JS React.js Express.js

Node.js Selenium Socket.io WebRTC),

DBMS (MYSQL MongoDB), CLI/Tools (Git Github), Linux

COMMUNITY

Web3Panjab

Founder and organizer

06/2022 – present | New Delhi, India

Focusing on promoting web dev and web3 to tier 2/3 cities and colleges through hands on session.

GDSC GTBIT

Head of Outreach and Logistic Dept.

2019 – 08/2022 | New Delhi, India

- Managed and ensured smooth execution of events
- Headed the promotional activities, interacted with like-minded communities