

Satvik Vemuganti

CS Undergrad



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ABOUT ME

I'm a 3rd year Computer Science Undergrad at IIT Bhilai. I enjoy picking up new skills and love experimenting with software tools and technologies. Two years of Computer Science education has brought me to appreciate mathematical graphs and the range of problems that can be solved by them. I partake in CTF contests which has led me to develop a keen interest in cybersecurity and cryptography. Outside of my academics, I enjoy reading books and writing blogs.

WORK

SOFTWARE HERITAGE

| INTERN | GSOC 2022

Jun 2022 – Present

Building metadata indexers for SWHs archived content

Mentors: Dr. Stefano Zacchiroli, Valentin Lorentz and Kumar Shivendu

IIT BHU

| RESEARCH INTERN

May 2022 – Jun 2022

Working on android malware detection using Deep Learning, advised by Dr. Mayank Swarnkar

IIT DELHI

| RESEARCH INTERN

March 2022 – May 2022

Worked on the issue of location privacy of UASs, advised by Dr. Dhiman Saha.

PROJECTS

ACTIVITY TRACKER MOBILE APP | FLUTTER

Android and NodeJS Server

- Used flutter bridging and channels to pass app usage data from java application to the flutter app.
- Harvested Geolocation data from GPS to keep track of device location.
- Created an endpoint API in the NodeJS server for the Activity-Tracker project (that exists for desktop and VSCode activity tracking).

TO-DO LIST APP | FLUTTER

Android and iOS

- Built an interactive cross platform application to track tasks and goals, using Flutter
- Employed widgets offered by Flutter for a clean and efficient UI.

MEDICAL-DIAGNOSIS-WEB-APP | PYTHON

Click here!

- A data-science project that uses decision tree based modelling to predict the disease, given the symptoms. Trained on the following dataset. Model was returning accuracy in the range of 90% to 96%, on an 75-25 dataset split ratio.

LINUX SHELL | C

- Built for Assignment 2 of CS250 (Operating Systems) at IIT Bhilai, 2021-22/W Semester taught by Dr. Anand Baswade.
- Shell supports redirection, piping and conditional execution.

SKILLS

PROGRAMMING

Proficient:

Python • C

Experienced:

Flutter • C++

Familiar:

Shell • Vim • JavaScript

TOOLS/PLATFORMS

Git • Jenkins • VSCode

EDUCATION

IIT BHILAI

BACHELOR'S IN COMPUTER SCIENCE

November 2020 - Present | Raipur, India

Department of EECS

Cum. GPA: 9.11

ACTIVITY

OPENLAKE

| COORDINATOR & MENTOR

May 2022 – Present

The club building OSS @ Bhilai

DE.CI.PHE.RED LABS |

RESEARCHER

Feb 2022 – Present

Crypto Lab @ IIT Bhilai

DEVELOPER STUDENT CLUBS

| CORE MEMBER

Jan 2022 – July 2022

The Google Developer's Club, IIT Bhilai

TINKERING LAB | FOUNDING

CORE ADVISOR

Jul 2021 – Present

Student Run Tinkerers Lab @ IIT Bhilai

DUGC, IIT BHILAI | STUDENT

REPRESENTATIVE

May 2022 – Present

UG Student Representative for Dept. of

EECS @ IIT Bhilai