

## HARSH SAGLANI

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## EDUCATION

### University of Maryland, A James Clark School of Engineering

Masters in Eng. in Cybersecurity (GPA: 4.0)

College Park, MD

Expected May 2023

### Savitribai Phule Pune University, Pune Institute of Computer Technology (PICT)

Bachelor of Engineering in Computer Engineering (GPA: 9.46/10)

Pune, India

June 2021

## WORK EXPERIENCE

### University of Maryland Dining Services

Graduate Assistant - Webmaster

College Park, USA

Jan 2022 - Present

- Creating and Migrating UMD Dining Services websites from Wordpress to Drupal 9 CMS
- Updating and Maintaining UMD Dining Services websites and keeping them updated
- Supporting Dining Service IT Department as instructed by supervisor

### R2i2 Technologies

Intern – Web Developer

Delhi, India

May 2021 – Jul 2021

- Enhanced an internal website which helped create, edit and manage projects
- Designed, strategized, and enhanced an algorithm which solved the Multiple Traveling Salesman Problem (MTSP) using Google OR tools
- Developed a website for the “Optiplan” project which solved the MTSP problem using Google’s OR tools.

## TECHNICAL EXPERIENCE

### Segmented Federated Learning for Adaptive Intrusion Detection System ([Research Paper](#))

Team Member

Pune, India

Published Jul 2021

- Built a Segmented-Federated Learning based system for network intrusion detection

### Network Intrusion Detection System (NIDS) using Federated Learning

Team Member

Pune, India

Jan 2021 – Jun 2021

- Detected Cyber-attacks by implementing a NIDS using Federated Learning
- Solved the lack of availability of data for Machine Learning (ML) algorithms that detect cyber attacks
- Implemented a NIDS system more efficient as compared to traditional ML based NIDS using Python
- Created a continuously evolving ML model as an improvement over traditional ML system

### NIDS using Ensembling of Decision Tree and Convolutional Neural Networks (Seminar)

Individual Seminar

Pune, India

Jul 2020 – Dec 2020

- Explored hybrid Machine Learning methods to implement a NIDS
- Improved accuracy implementation by using multiple ML algorithms and approaches

### Face Recognition based Attendance System

Team Member

Pune, India

Jul 2019 – Dec 2019

- Developed a native android application for student attendance
- Implemented Face Detection and Face Recognition to mark attendance using Python
- Automated and eased the attendance process as well as reduced the risks of ‘attendance by proxy’

### Safana - Employee Management and Project Management System

Co-Developer

Pune, India

Sept 2019

- Developed a native android application with a firebase backend to help project managers add and remove employees, tasks and projects

### Fake News Detection System

Team Leader (Hackathon)

Aurangabad, India

Jan 2019

- Created a fake news detecting web app by taking either a twitter tweet or a normal text containing news claim, finding relevant news articles and performing sentiment analysis using Convolutional Neural Network and Logistic Regression

## SKILL SETS:

- **Programming** - Java, Android, Perl, C++, Python
- **Web & Database** - HTML, CSS, Bootstrap, SaSS, JS, PHP, wordpress, drupal, node js, react js, MySQL, MongoDB, Firebase
- **Tools/Technologies**- Metasploit, Burp Suite, Wireshark, Scanning, Enumeration, CI/CD, Android Studio, Office 365
- **Courses** - <https://harshsaglani.live/#cert>

## RELEVANT EXTRACURRICULAR ACTIVITIES:

### Event Head, "Lakshya" CTF 2020 – a cybersecurity technical festival at PICT

- Organized the event and managed the team of 20+ members.
- Contributed 10+ problem statements (steganography, digital forensics, cryptography, penetration testing and encryption)
- Developed front-end for the event’s website for 2 years

### Founder, Cyber Security Student Cell at PICT

- Planned, strategized, and managed CTF events, seminars, and workshops in PICT