

HARSH SAGLANI

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EDUCATION

University of Maryland, A James Clark School of Engineering

Masters in M.Eng. Cybersecurity

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

R2i2 Technologies

Intern – Web Developer

Delhi, India

May 2021 – July 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 “Optiplan” project which solved MTSP problem using Google’s OR tools

Globular Tech Services

Intern - PHP Developer

Amravati, India

May 2017

- Developed a dynamic website for “Zheptours” - a tours and travel company
- Designed and implemented an Admin Panel to create, control and update various dynamic sections of the website
- Learned advanced PHP and connection with databases and web hosting

TECHNICAL EXPERIENCE

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 web application to detect whether a news claim is fake or not by taking either a twitter tweet or a normal text containing news claim, finding relevant news articles after keyword extraction and performing sentiment analysis on contents of news articles using Convolutional Neural Network and Logistic Regression

SKILL SETS:

- Programming** - Python, C++, Java
- Web** - HTML, CSS, Bootstrap, SaSS, JS, JQuery, PHP, node js, react js
- Databases** - MySQL, MongoDB, Firebase
- Operating Systems** - Linux, Windows
- Tools/Softwares** - Wordpress, Android Studio, Photoshop, Premier Pro, Canva, Office 365 suite

EXTRA CURRICULAR ACTIVITIES:

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

- Organized the event and managed the team of around 20 members, contributed problem statements (steganography, digital forensics, cryptography, penetration testing and encryption) and developed front-end for the event’s website

Founder, Cyber Security Student Cell at PICT

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

Social Media Manager, Coding and Decoding - A Technology page on Instagram (over 165k followers)

- Create posts, Manage, Grow the social media page as well as engage with the audience via messaging and live streams.

Youtube Manager, Ash Studios - A technology related youtube channel (around 750 subscribers)