**ABARNA SATHIAMURTHY**
**21PC01**

| | |
|---|---|
| Gender | Female |
| Date of Birth | 12th April 2004 |
| Languages known | English, Tamil |
| **Email** | 21pc01@psgtech.ac.in |
| **LinkedIn** | www.linkedin.com/in/abarna-sathya/ |
| **GitHub** | github.com/AbarnaSathiamurthy |
| **Mobile** | **+917010337184** |

**Address**
14/22, BHEL Apartments, Williams Road, Contonment,
Trichy – 620001.

## OBJECTIVE

To obtain a position as a student intern from May 2024 till November 2024.

## ACADEMIC QUALIFICATION

Currently pursuing 3rd year of 5 years Integrated M.Sc. Cyber Security at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

## SKILL SET

| | |
|---|---|
| Languages | Python, SQL, C++ |
| Platform | Windows, Linux |
| Tools | Burp Suite, Cisco Packet Tracer, Arduino Uno |

## AREAS OF INTEREST

- Web Application Security
- Machine Learning
- Object Oriented Programming
- Identity and Access Management

## ACADEMIC RECORD

- **M.Sc. Cyber Security** *2021-2026*
  PSG College of Technology, Coimbatore **7.95 CGPA**

- **XII (Higher secondary, CBSE)** *2021*
  Chennai Public School, Chennai **96.8 %**

- **X (SSLC, CBSE)** *2019*
  Kamala Niketan Montessori School, Trichy **97 %**

## NON-ACADEMIC PROJECTS

- **Sensor-based Traffic signal system**, built using **Arduino** is a slightly improvised model of the usual traffic light system. It doesn't just work based on a timer but also uses **IR sensors** to monitor vehicle density of a lane and prepones or skips to the next lane accordingly.

- **FRIENDS** is a vulnerable CTF box that was built in order to highlight various attacks and security mechanisms in an ubuntu machine. Concepts including steganography, cryptography, buffer overflow and web exploitation using IDOR are implemented.

- **StockProphet** leverages Machine Learning techniques like Recurrent Neural Networks (**RNN**) and Long Short-Term Memory (**LSTM**) models to predict Google stock prices. It also incorporates data visualization, providing a comprehensive understanding of the dataset.

## ACADEMIC PROJECTS

- **21 days** is a **Python** based project that works on the fact that it takes 21 days for a person to develop a habit. It aims to generate a workout and diet routine with reference to already fed inputs assisted by **SQLconnector**, **Numpy, Timer** and **matplotlib** modules.

- **Malware Classifier** is a machine learning oriented **Python** project that not only classifies malware from the big malware dataset but also compares the accuracy of classification among ensemble learning algorithms namely, XGBoost, AdaBoost and Random Forest.

- **Network Intrusion Detection System** implemented in **Python** that reads and analyzes packets with the help of **Scapy** library, based on blacklists and whitelists, and takes actions such as **logging** events, sending email alerts (leveraging **smtplib** module) or blocking IPs.

## EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Participated in **ACM Summer School** '23 on Cybersecurity in association with **Cisco**.
- Secured **third place** in Securathon conducted by the **IEEE Computer Society** by proposing a solution for security issues in Supply Chain.
- School Sports Captain who has led the team into winning the overall championship.
- Participated and won athletic events such as 100m and relay at school level.
- Diploma in Carnatic Music (Part-Time) offered by Kalai Kaviri College of Fine Arts (Central-Affiliated)
- Diploma in Drawing (Part-Time) offered by Kalai Kaviri College of Fine Arts (Central-Affiliated)

## DECLARATION

I, Abarna Sathiamurthy, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore
Date : 22/01/2024 (Abarna Sathiamurthy)