

Rohit Narayanan M

Web Application Security Researcher

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Profile

Highly motivated and enthusiastic web application security researcher with a strong interest in cybersecurity and AI. Experienced in conducting penetration testing and researching web security topics, as well as mentoring juniors. Proven track record of success in various Capture the Flag (CTF) competitions. Passionate about using AI to make daily tasks easier and constantly seeking new challenges in the field.

Experience

Penetester, Traboda

02/2021 – present | Kollam, India

Helps organisations assess their products and services, and reduce and mitigate their cyber risks. Make Challenges for the platform which trains students and professionals

Web Application Security Researcher, Team bi0s

08/2020 – present | Kollam, India

Researches different topics on web security. Makes challenges and mentors juniors on the same issues. Conduct top level CTFs which help students and professionals to improve their skills

Education

Artificial Intelligence Engineering,

B.Tech Amrita Vishwa Vidyapeetham

2020 – present | Kollam, India

CGPA: 8.54

Higher Secondary Education, VGSS Ambikodayam HSS

2018 – 2020 | Kollam, India

Percentage: 97.5

Higher Education, VGSS Ambikodayam HSS

2013 – 2018 | Kollam, India

Percentage: 95

Achievements

DomeCTF 2022 - Winner, Kerala Police Cyberdome

2022
Cybersecurity-based Capture The Flag competition organized as a joint venture by Kerala Police Cyberdome and Beagle Security at c0c0n XV to solve the gamified challenges in cyberspace.

Cyber Mayhem - 6th, Hack The Box

2022
Attack-Defence Style Capture the flag competition conducted by Hack The Box where teams of 4 face each other in separate rounds.

ISITDTU CTF - Top 10, DuyTan University, Vietnam

2022
Cybersecurity based Capture The Flag competition organized by DuyTan University, Vietnam

BSidesSF CTF - Second place, BSides San Francisco

2022
Cybersecurity-based Capture The Flag competition organized by BSides San Francisco

Securinets CTF - Second place, Securinets

2021
Cybersecurity-based online jeopardy style Capture The Flag competition organized by Tunisian students. Securinets is the first national association for cybersecurity in Tunisia.

WPI CTF - Second place, Worcester Polytechnic Institute

2021
Cybersecurity based Capture The Flag competition organized by Worcester Polytechnic Institute

Certificates

Natural Language Processing with Classification and Vector Spaces
(DeepLearning.AI)

Python - Basics (Hackerrank)

Events Organized

Amrita InCTF 2021

- Organised InCTF junior, InCTF Nationals, and InCTF Professionals for school students, college students and working professionals
- Delivered a talk about the basics of web security

InCTF Internationals 2021

- Developed and hosted challenges for the CTF

bi0s CTF 2022

- Developed challenges for the CTF
- Hosted the CTF platform and gave technical support throughout the event

Skills

Programming

Python, Java, C++, C, Go, Javascript

Web development

PHP, Flask, NodeJS, Express, Selenium

Databases Management

MYSQL, SQLite, PostgreSQL, MongoDB, NoSQL

Machine Learning

Numpy, Keras, Tensorflow, PyTorch, PyTesseract

Soft Skills

Leadership, Team player, Problem Solving, Adaptability

Tools

BurpSuite, Nmap, SQLmap

Dev-ops

Docker, Docker-compose, Git, Google Cloud, AWS

Other skills

Bash, Algorithms, Data Structures

Interests

Cyber Security

I'm a cyber security enthusiast who constantly participates in CTFs. I do focus on web exploitation in CTFs, even though I also do pentesting and Network security too.

Artificial Intelligence

I am someone who is interested in Artificial Intelligence for the wonders it can do. I have a great interest in using it on my own daily tasks which makes my life easier.

Projects

Intrusion detection robot using ROS [↗](#)

06/2022

Used Raspberry Pi in combination with ROS to design Four wheeled security Robot that can be controlled by using a laptop or just give a predefined path to the robot.

File Sharing

06/2022

Web app built using Next.js and Flask which lets users share files within the same network

Data-Compression-LZW [↗](#)

12/2021

Small desktop application using LZW, which could compress text and image files with an attractive GUI.

Handwritten Digit Recognition [↗](#)

12/2021

Presents recognizing the handwritten digits (0 to 9) from the famous MNIST dataset. Handwritten digit recognition is the solution to this problem which uses the image of a digit and recognizes the digit present in the image.

Regression using ADMM on high dimensional dataset [↗](#)

11/2021

ADMM-based and regular Lasso and Ridge regression models using python. Made a comparative study of these models on the provided datasets.

Life hack Workshop For students

10/2022

Workshops for students of classes 6 and 7 about life hacks.

Languages

Malayalam

Read, Write, Speak, and Understand

English

Read, Write, Speak, and Understand

Hindi

Read, Write, Speak, and Understand

Sanskrit

Read, Write, Speak, and Understand

Tamil

Speak, and Understand