MIHIR PATEL

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EDUCATION

Master of Science in Cyber Security
Florida International University (GPA - 3.57)
August 2022 - May 2024

Bachelor of Technology (B.Tech) in Computer Science & Engineering (Specialization in Cyber Security)
Rashtriya Raksha University (CPI: 7.48)
July 2017 - June 2021

SKILLS AND EXPERTIES

Frameworks/Systems: Wireshark, Nmap, Jira, Autopsy,Scripting, Docker, Web Development, React, Metasploit, AWS, TensorFlow, Git, Agile Methodologies, Scrum, Testing, Postman, RESTful API

Programming: HTML, CSS,C, C++, Java, JavaScript, Python.

Technologies: Databases, Data Structures, Cryptography, Cyber Security, My SQL, Network Security, Security Monitoring, Data Science, Image Processing, Data Visualization, Machine Learning, Reverse Engineering, Debugging, Networking, Cloud Computing, Unix/Linux Environment, Operating Systems, Firewall Configuration, Data Analysis, Analytics, Statistical Analysis.

Organizational Skills: Analytical Thinking, Communication Skills ,Problem Solving, Adaptability Critical Thinking, Logical Reasoning.

Languages Known : English, Hindi, Gujarati.

HONORS AND AWARDS, CERTIFICATES:

- Lab Access for Network Security, Firewalls, and VPNs, Third Edition
- Two-time winner of the chess tournament at the Annual Sports Festival, Rashtriya Raksha University.
- Developed a detection and prevention mechanism to secure Web Application Databases.
- Successfully completed a SQL boot camp with MySQL, PHP & Python.
- Proficient in Reverse Engineering, Debugging, and Malware Analysis (2021).
- Accomplished Python For Ethical Hackers: Building Web App Login Brute-force.
- Completed The Complete Android Ethical Hacking Practical Course C|AEHP
- Attained expertise in The Complete Introduction to the Hidden Web - Deep Web.

CAREEE OBJECTIVE

Dedicated cyber security specialist with a strong academic foundation and practical experience in securing web applications and networks. Seeking a challenging role to contribute expertise in cyber security and foster the growth of a reputable company.

WORK EXPERIENCE

Teaching assistant

Florida International University,USA   August 2023- Present

- Evaluate assignments and C programming projects for the Operating Systems course.
- Apply rigorous criteria aligned with design principles and implementation techniques.
- Assess student work on key operating system concepts.

Software Engineer

Ravi Engineering,India   November 2021 - July 2022

- Conducted rigorous testing, debugging, and quality assurance.
- Installed, configured, and evaluated software solutions using C++, Java, Python, and PHP.
- Collaborated with product managers, designers, and stakeholders to translate software requirements into technical solutions.

Research Intern

Rashtriya Raksha University,India   January 2021 - July 2021

Title: SQL Injection Detection and Its Prevention Mechanism to Secure Web Application Databases

- Worked on the detection and prevention mechanisms to secure web application databases using various SQL injection methods such as web application firewall, Union Base Query Passing, and Manual SQL Injection Testing.

PROJECTS

Title: Pantherace – Race Condition Vulnerability Reproduction and Detection
August 2023 - September 2023

- Provided a program with a race-condition vulnerability.
- Developed a scheme to exploit the vulnerability and gain root privilege.
- Guided the walk-through of protection schemes against race-condition attacks.

Title: ICMP Redirect Attack   September 2023 - October 2023

- Launched an ICMP redirect attack on the victim.
- Demonstrated Man-In-The-Middle (MITM) attack scenarios.

Title: Global Suicide Statistics From World Health Organization
January 2023 - April 2023

- Conducted analysis and predictions to determine factors affecting suicide rates.
- Utilized Data Visualization, Time Series Analysis, Machine Learning, and Data Analysis

Title: Diagnosis of Pneumonia in Human Chest X-rays using CNN Algorithm of Deep Learning   September 2020 - December 2020

- Developed deep learning architecture for pneumonia detection in chest X-rays.
- Enhanced classification and detection performance through the implementation of regularization approaches.
- Utilized tools such as Android Studio, TensorFlow, Google Colab, and Flutter.

Title: Detecting Phishing Emails Using Machine Learning Techniques
February 2020 - June 2020

- Developed a phishing email detection approach using pre-processing, feature selection, and machine learning.
- Implemented the solution using WEKA tools and deep learning architecture