Nithin Ram Gomatam Vasudevan

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EDUCATION

August 2021 - December 2022
CARNEGIE MELLON UNIVERSITY
Master of Science in Information
Technology - Information Security
QPA : 4.0/4.0

COURSEWORK

Intro to Computer Systems
Intro to Information Security
Fundamentals of Telecomm. Networks
Fundamentals of Business and Mgmt.

July 2016 - June 2020
AMRITA VISHWA VIDYAPEETHAM
Bachelor of Technology in
Computer Science and Engineering
GPA : 9.14/10

COURSEWORK

Data Structures and Algorithms
Internet of Things
Operating Systems
Database Management Systems
Cloud Computing and Services
Cryptography
Machine Learning and Data Mining
Neural Networks and Deep Learning
Big Data Analytics

SKILLS

OS
GNU/Linux, Windows

PROGRAMMING LANGUAGES
C/C++, Java, Python, javascript

SECURITY
Reverse Engineering, Buffer Overflows, SQL
Injection, XSS

DATABASES
MySQL, Oracle SQL, MongoDB

INTERPERSONAL
Leadership, Teamwork, Meticulous,
Problem solving, Decisive

AREAS OF INTEREST
Malware Analysis, Application Security,
Penetration Testing, Digital Forensics,
Security Automation

EXPERIENCE

August 2020 - July 2021
Zacco Cyber Security Private Limited   **Research Intern**
Performed an extensive research on 12 Exploit Kits including those currently in use and those of the past. One common exploit used by these kits was also reversed and analyzed.

May 2018 - June 2018
Lakhshya Cyber Security Labs Pvt. Ltd.   **Summer Intern**
Developed a customizable Remote Access Trojan to infect a target system and obtain required information for Red Team projects.

PROJECTS

Detection and Prevention of Advanced Persistent Threats
Aimed at detecting and preventing advanced persistent threats in heterogeneous networks using ML and DL. Various python models are applied to analyze network logs supplied by IBM.
(Research Work) August 2019 - March 2020

Traffic Signal Jumping Detection System
Designed an automated system to detect traffic signal jumpers as team leader. (https://youtu.be/oFV1VyEamBE)
Arduino UNO, NodeMCU, Embedded C, Android

Railway Ticket Reservation System
Developed, as a team, a web-based application using Node.js and MongoDB to help passengers book, edit or cancel reservations on trains. Separate interface provided for administrators to manage train database.
HTML, CSS, Javascript, Node.js, MongoDB

Steel Plate Inspection System - Team Lead
Analyzed different steel plate faults and classified it. Made a comparative study to identify most suitable ML model for above classification.
Python

Multithreaded Web Proxy
Built a multithreaded web proxy to handle HTTP requests towards completion of the course Introduction to Computer Systems.
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ACTIVITIES AND AWARDS

- Led a team of 8 to organise gaming events of Amrita School of Engineering, Coimbatore's annual tech fest in 2019.
- Named as the Best Intern of 2017-18 at Lakhshya Cyber Security Labs Pvt Ltd.
- Representative of the department of Computer Science & Engineering at college's annual Cultural Fest in 2019.