Nithin Ram Gomatam Vasudevan

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EDUCATION

August 2021 - December 2022
MASTER OF SCIENCE IN INFORMATION TECHNOLOGY - INFORMATION SECURITY
Carnegie Mellon University

July 2016 - June 2020
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING
Amrita Vishwa Vidyapeetham
GPA : 9.14/10

COURSEWORK

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

SKILLS

OS
GNU/Linux, Windows

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

UI DESIGN LANGUAGES
HTML, CSS, XML

FRAMEWORKS
Node.js, Express JS, Android

DATABASES
MySQL, Oracle SQL, MangoDB

INTERPERSONAL
Leadership, Teamwork, Meticulous, Problem solving, Decisive

LANGUAGES
English(fluent), Tamil(native speaker), Kannada(fluent), Hindi(fluent)

EXPERIENCE

August 2020 - July 2021
Zacco Cyber Security Private Limited   **Research Intern**
Performed an extensive research on Exploit Kits and exploits including those currently in use and those of the past. One of these was also reversed. Planned to be made available to public in order to increase awareness. The research is expected to be published.

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

ACTIVITIES AND AWARDS

- Led a team to organise gaming events of Amrita School of Engineering, Coimbatore's annual tech fest in 2019.
- Volunteered in the Baala Janaagraha Programme conducted in 2012 at a civic fest in Bengaluru.
- 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.
- Ranked 12th in state in the National Cyber Olympiad, 2015.