Aadarsh Karumathil

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Objective

To obtain a career which would enhance my knowledge and help the organization grow by becoming one of the best security experts in the world

Education

Rochester Institute of Technology, Rochester, New York **Dec 2018**

Master of Science: Computing Security

Amrita University, Coimbatore, India **May 2014**

Bachelor of Technology: Computer Science

Technical Skills

Programming Languages: Python, Java, Ruby and Linux shell scripting

Frameworks: Metasploit, Rails

Tools: Wireshark, Burp suite, VMware, Maltego,

Security: Cryptography, Crypt-analysis, Penetration Testing, Auditing, Malware analysis, Homomorphic Encryption.

Operating Systems: Arch Linux, Centos, Ubuntu, Kali and windows

Work Experience

Rochester Institue of Technology,Rochester,New York **JAN 2017 -Present**

Graduate Research Assistant:

- Working with professor Hrishikesh Acharya as a research assistant on a better authentication model for sensor nodes with the help of Yaksha security system

Avnet Services: Business Solutions, Chennai, India **Dec 2014 – Dec 2015**

Associate Systems Engineer:

- Was a part of the team which maintained e-commerce sites like Tommy Hilfiger, Calvin Klein, Equestrian etc.
- Shell scripting for production servers.
- Writing selenium and web inject scripts for site maintenance
- IP Auditing

Academic Projects

- Securing Private Outsourcing Computation: -
  - Worked on implementation of Homomorphic encryption (Paillier Encryption) on a third party cloud in order to secure the data and perform computation on the data without decryption.
- Improvised Classification Model for Cloud Based Authentication Using Keystroke Dynamics:
  - Worked on implementing bio-metric authentication without the need of an additional hardware.
- Treads on MEAN STACK Hacking
- Ransomware and a detailed analysis on how its countermeasures work

Achievements

- Publication of Improvised Classification Model for Cloud Based Authentication Using Keystroke Dynamics in Springer LNEE