

# Aakash Prasad

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## EDUCATION

**NORTHEASTERN UNIVERSITY**, Boston, MA

College of Computer and Information Science, **GPA: 3.7/4.0**

*Candidate for a Master of Science in Information Assurance and Cybersecurity*

Sept 2016-present

Expected graduation: Sept 2018

**VELLORE INSTITUTE OF TECHNOLOGY**, Tamil Nadu, India

School of Information Technology and Engineering, **GPA: 3.75/4.0**

*Bachelor of Technology in Information Technology*

Graduated May 2016

## TECHNICAL KNOWLEDGE

**Language:** C, C++, Java, JavaScript (Node JS), HTML, Swift, Terraform, Python, High Level Assembly, Bash

**Operating System:** Mac OS, Windows 7-10, Kali Linux, CentOS, Ubuntu

**Tools:** Wireshark, FileZilla, NetWitness Investigator, Aircrack-ng, OpenVAS, Splunk, Suricata, Metasploit, FTK Imager, ProDiscover, SANS SIFT, Sleuth Kit, Autopsy, Xplico, VMware Workstation, Nessus, Burp Suite, JIRA

**Compliance & Standards:** PCI DSS, HIPAA, SOX

**Cloud Platforms:** Amazon Web Services(AWS)

## ACADEMIC PROJECTS

**Capstone project - Threat Hunter**

Spring 2018

- Developed a threat hunting architecture, sponsored by CISCO, via honeynet using deceptive technology to gather attack data and make automated changes to Suricata IDS rules after analysis. The architecture was created on AWS using Terraform (Infrastructure as code). This was done to proactively block malicious behaviour directed towards the company's network

**Technical paper**

Fall 2016

- "Implementing the Bell LaPadula model using homomorphic encryption", which provides more security to company data by using RSA encryption and access control lists.

**Web Application attacks**

Spring 2017

- Discovered several security issues in WebGoat, Gruyere and DVWA and conducted several attacks using various attack vectors in order to better understand web application attacks. Created Django environments in order to hack and harden the system

**Payload writing**

Summer 2017

- Created several payloads in Python for various use cases ranging from automated web attacks to system based attacks

## WORK EXPERIENCE

**Brightcove**, Boston, MA

Jan – June 2018

Information Security Analyst

- Perform and address, threat and risk assessments on network, database and data centers.
- Sanitised important company data in order to maintain confidentiality and integrity of the data.

**Northeastern University**, Boston, MA

Sept – Dec 2017

Graduate Teaching Assistant for Foundation of Information Assurance course

- Assisted in designing labs and assignments.
- Responsible for grading assignments, class participations and laboratory exercises.

**Clinchpad Technologies**, Gurgaon, India

Feb – May 2016

Software Developer Intern

- Developed an iOS application for a social networking and ecommerce website, to maximise consumer base and retail.

**Polaris Consulting & Services Ltd.**, Gurgaon, India

Dec 14 – Jan 2015

Software Tester Intern

- Found flaws in 2 projects that were being done by Polaris Consulting & Services Ltd. at the time by examining the code, to increase product efficiency and value.

## INTEREST/ACTIVITIES

- Technical head of the Institute of Engineers India (IEI) Vellore chapter- conducted various workshop for students.
- Volunteered with an NGO called Prayas, and worked with them in two villages in Rajasthan to teach the local children.