

# Aakash Prasad

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## EDUCATION

**NORTHEASTERN UNIVERSITY**, Boston, MA

College of Computer and Information Science, **GPA: 3.75/4.0**

Graduated Aug 2018

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

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

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

Graduated May 2016

*Bachelor of Technology in Information Technology*

## TECHNICAL KNOWLEDGE

<b>Language:</b>	C, C++, JavaScript (Node JS), HTML, Swift, Python, Bash
<b>Operating System:</b>	Mac OS, Windows 7-10, Kali Linux, CentOS, Ubuntu
<b>Tools:</b>	Wireshark, FileZilla, NetWitness Investigator, Aircrack-ng, OpenVAS, DefectDojo, OWASP ZAP Splunk, Suricata, Metasploit, FTK Imager, ProDiscover, SANS SIFT, Sleuth Kit, Autopsy, Xplico, VMware Workstation, Nessus, Burp Suite, JIRA, SIEM, Threat Stack
<b>Cloud technologies:</b>	AWS( Amazon Web Services ), Terraform, Docker, Kubernetes

## 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(Amazon Web Services) using Terraform. This was done to proactively block malicious behaviour directed towards the company's network.

**Web Application attacks**

Spring 2017

- Discovered several 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

**Threat Stack**, Boston, MA

Sept - present

Security Analyst ( SOC )

- Performed threat hunting in several customer environments in order to detect and prevent ongoing attacks.
- Monitored system and AWS based environments in order to prevent overprovisioning and minimising attack surfaces.
- Performed penetrations tests on servers in order to detect ongoing attacks, provide recommendations and remediations.
- Created several tools and applications(CLI and Web based) using bash, python and Django.
- Worked with product and DevOps teams in order to improve the Threat Stack platform.

**Brightcove**, Boston, MA

Jan – June 2018

Information Security Analyst

- Developed a plugin for DefectDojo in order to manage and track CVE of vulnerabilities.
- Performed a comprehensive pen test of DefectDojo which was hosted on an AWS instance.
- Identified several vulnerabilities in existing applications using Python scripts and the Casper Suite Administrator.
- Vetted new partner vendors by performing threat and risk assessments on them.
- Identified and inventoried critical assets and information in order to enhance existing policies.
- Sanitised important company data that was being requested by current and prospective clients.
- Promoted security awareness to end users by creating courses in Moodle.

**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.

## INTEREST/ACTIVITIES

- Volunteered with an NGO called Prayas, and worked with them in two villages in Rajasthan to teach the local children.