Tejas Pattabhi

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Engineer at OpenText (previously Webroot)

WORK EXPERIENCE

OpenText, previously Webroot, San Diego, CA – Sr. Software Engineer

Previously, System Software Engineer and Software Engineer

September 14th, 2015 – Current

URL Crawling, Classification & Threat Detection: As the head of this project, developed & maintained clusters to perform safe web-crawling. Mentored engineers in the team on classification, threat detection and safe-web crawling. Hit 17M+ URL crawls a day. Identified ~1% of those as threats, classified ~87% them into predefined categories, identified site's language; all using Webroot developed ML models. Key part of project DeepCrawl; engineered an extension to dig URLs related to a threat URL – URLs hosted on same IP of the threat, common paths, previously known, etc. *Patent pending to Webroot*. I am also the DevOps engineer responsible for hosting this on AWS.

IP Threat Analysis: As the subject matter expert, lead on this project, developed a prison system for IPs to publish a threat list. A key developer in categorizing the IPs based on its recorded bad activity of threat categories: *Phishing, Botnet, Malware, Proxies, Spam*. I am also the DevOps engineer responsible for hosting this on AWS.

Cloud Security Intelligence and Reputation: As a key engineer in the team, responsible for designing & developing a reputation scoring system for cloud applications and its hosting organizations based on CSA properties, security features, hosting URL reputations. Enabled the application to gather data vectors dynamically. I am also the DevOps engineer responsible for hosting this on AWS.

Honeypots: As a part of a team, architected, developed honeypots on cloud platforms which traps *scanners, malware, injections, DoS attackers*, etc. and feed to IP Threat Analysis. I am also the DevOps engineer responsible for hosting this on AWS, GCP and Azure.

API Monitor: Designed a custom monitor to check the uptime, latency and accuracy of BCTI Web APIs across regions on AWS. Helped architect monitoring at 3 levels: customer, load balancer and individual server. Ensured and achieved extremely high availability.

Anonymous Proxy Identifier: As an innovation, developed a system which can *identify and trap open web IPv4 proxies* which pose a threat to the internet *through tor network*.

Award Solutions, Richardson, TX – Student Volunteer, Project - Openstack

May 27th, 2015 – August 5th, 2015

Alarm Counter Web: Built an app and UI that can respond to web-hooks executed on every state transition of a VM in the Alarm Counter. Information gathered – Ceilometer.

TradeStation Tech., Richardson, TX - Software Developer – Intern

May 16th, 2014 – December 31st, 2014

IISLogAnalysis: Using AWS EMR, built an application to analyze everyday IIS logs to quantify volumes requests and response. Using D3, developed & hosted a graphical view of this data.

Societe Generale, Bangalore, India - Young Grad, Windows Server Administrator

August 8th, 2012 – July 26th, 2013

Health Check of VMs Automation: Built scripts to extract status of production servers on all ESXi present in two remote data centers & presented it as a web app. As DevOps, investigated cases of unreachable servers, network failures and backup issues.

EDUCATION

M. S. in Computer Science

The University of Texas at Dallas

Graduated: August 2015

B. E. in Information Science

PES School of Engineering, India

Graduated: August 2012

SKILLS

Python	♦	♦	♦	♦	♦
C#	♦	♦	♦	♦	
C		♦	♦	♦	♦
AWS	♦	♦	♦	♦	♦
Azure		♦	♦	♦	♦
OO	♦	♦	♦	♦	♦
MySQL	♦	♦	♦	♦	
MS-SQL	♦	♦	♦	♦	♦
REST	♦	♦	♦	♦	♦
Git		♦	♦	♦	♦

REPO

https://bitbucket.org/tejaspattabhi