*Engineer at Webroot*

# WORK EXPERIENCE

Webroot, San Diego, CA – Sr. Software Engineer

Previously, System Software Engineer and Software Engineer

September 14th, 2015 – Current

IP Threat Analysis:In a team, developed a prison system for IPs to publish a threat list. Was a key developer in categorizing the IPs based on its recorded bad activity of threat categories: *Phishing, Botnet, Malware, Proxies, Spam*.

URL Crawling & Threat Detection: Developed and maintained clusters designed in multiple stages to perform safe web-crawling, connecting multi-step process communicating through queues. Obtained an accuracy of 17M+ URL crawls a day. Was successful in identifying ~1% of those as threats. Key part of project DeepCrawl; engineered a program to dig related URLs of a threat URL – URLs hosted on same IP of the threat, common paths, previously known, etc. *Patent pending to Webroot*.

Honeypots: In a team, architected, developed and deployed various honeypots on multiple cloud platforms which traps *scanners, malware, injections, DoS attackers*, etc. and feed it to the IP Reputation system of Webroot.

API Monitor: In a team, architected & developed a monitor to check the uptime, latency and accuracy of *WebAPI* products across regions. Monitoring architected at 3 levels: customer, load balancer and individual server.

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 that can run on a Linux Server VM & respond to web-hooks executed on every state transition of a VM in the Alarm Counter. Designed a web page to consolidate all tenant monitors graphically. Information gathered – Ceilometer.

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

May 16th, 2014 – December 31st, 2014

IISLogAnalysis: Implemented MapR to analyze IIS logs from production servers on a daily basis using the AWS Elastic Map Reduce to output information on number of requests and response codes for different intervals of time. D3 Web Application: Using the D3 framework, developed & hosted which gives a graphical view of data from IISLogAnalysis.

Societe Generale, Bangalore - Young Grad, Windows Server Administrator

August 8th, 2012 – July 26th, 2013

Health Check of VMs Automation: Developed scripts to extract the status of production servers on all ESXi present in two data centers & presented it as a web app. As DevOps, investigated cases of unreachable servers, network failures and backup issues. Participated in Disaster Recovery drills. Individually installed and configured ESXi and clusters to host VMs.

# KEY ACADEMIC PROJECTS

Mutual Exclusion using Dynamic Voting Protocol: in a Distributed Computing environment: Implemented a File System management (all functionalities) in a Distributed Systems environment using the principles of *Static and Dynamic Voting* between nodes.

Distance Vector Multicast Routing: Developed an application which would simulate the working of *DV Multicast Routing* using UNIX processes. Simulation included BGP & OSPF implementation.

Distributed Node Discovery: Self designed algorithm for discovering all the nodes in a distributed computing network environment. Implemented this algorithm using SCTP - C++.

# EDUCATION

**M. S. in Computer Science**

The University of Texas at Dallas

Graduated: August 2015

GPA: 3.423/4.00

**B. E. in Information Science**

PES School of Engineering, India

Graduated: August 2012

Score: 81.6/100

# SKILLS

### Languages

C# ♦ ♦ ♦ ♦ ♦

Python ♦ ♦ ♦ ♦ ♦

C ♦ ♦ ♦ ♦

C++ ♦ ♦ ♦ ♦

*As DevOps,*

Cloud Computing Platforms   
AWS ♦ ♦ ♦ ♦ ♦

Azure ♦ ♦ ♦ ♦

# MY WORK

[https://bitbucket.org/tejaspattabhi](https://bitbucket.org/tejaspattabhi/)

# PUBLICATION

Tejas Pattabhi, Arti Arya, Pradyumna N, Swati Singh, Sukanya D,"Implementing Delaunay Triangles and Bezier

Curves to Identify Suitable Business Locations in the Presence of Obstacles", IJITCS, vol.5, no.3, pp.29-39, 2013.DOI:

10.5815/ijitcs.2013.03.04  
[<http://www.mecs-press.org/ijitcs/ijitcs-v5-n3/v5n3-4.html>]