

Sridhar Gude

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Education

2014 – 2016 San Jose, United States	M.S in Electrical Engineering , <i>San Jose State University</i> GPA: 3.71/4.0
2010 – 2014 Guntur, India	B.E in Electronics & Communication , <i>K L University</i> GPA: 3.85/4.0

Professional Experience

06/2020 – present Mountain View, United States	Tech Lead, Site Reliability Engineer , <i>TikTok</i> <ul style="list-style-type: none">• Leading Infra Team on NoSQL storage.• Building systems and tools to improve the observability of TikTok Infrastructure.• Development and Instrument platforms to support smooth deployments of NoSQL services.
09/2016 – 06/2020 San Jose, United States	Sr. Cloud Reliability Engineer , <i>Zscaler</i> Python Automation Framework <ul style="list-style-type: none">• Architected and developed the Automation framework for Zscaler's data path modules in Python.• Developed web apps for internal tools, networks using Flask. Advanced Monitoring using Nagios <ul style="list-style-type: none">• Designed, developed and deployed advanced monitoring for Zscaler distributed systems.• Proactively monitoring the servers, services and auto-remediation of them through open-source and home-build tools. Cloud Sandbox <ul style="list-style-type: none">• Deployment of weekly signature updates to sandbox ecosystem hosted in the cloud with zero downtime using Ansible.• Develop and execute test plans for the Behavior Analysis Engine.• Static and Dynamic Analysis of Files using open-source tools: YARA, SSDEEP Dynamic Content Categorization <ul style="list-style-type: none">• Implementation of data pipeline collection and validation of results of ML models for URL Categorization.• Tested the Categorization of Miscellaneous URL Categories that are categorized by Machine Learning.• Developed a framework to derive the content from URLs for training and testing the model files. Other Job Duties <ul style="list-style-type: none">• Develop tools to increase the stability of services provided by the company.• Developing scripts to automate daily tasks performed by System-admin.• Hosting webserver running on NGINX, and APACHE on different nix platforms.• Troubleshooting and Analyzing the Zscaler service components: ZEN[Web Proxy], Sandbox.• Recreation of customer found issues in the field using different tools: OPENSLL, TCPDUMP.• Testing different modes of traffic: transparent proxy[GRE and IPSec Tunnels], Forward Proxy[PAC].• Crafting the network packets using the SCAPY tool on different TCP/IP stack layers.
06/2016 – 09/2016 San Jose, United States	Cloud Reliability Engineer, Intern , <i>Zscaler</i> <ul style="list-style-type: none">• Deployment of new features, builds and patches onto production servers.• Cloud – Web proxy Testing using GRE Tunnels and IPSec Tunnels.• Automated the deployment of builds and Configuration Management of distributed servers using Ansible• Proof of Concept design, documentation of tests and results.

05/2015 – 08/2015
Santa Clara, United States

- Current Product Engineer Intern, Palo Alto Networks**
- Designed prototypes, testbeds in CPE lab to recreate client-server architecture scenario for firewall testing.
 - Install, configure and monitored PAN Firewalls (physical and virtual).
 - Scripts to automate the routing between clients and servers to pass through any arbitrary firewall for testing.
 - Built scripts to check the connectivity of users to firewall and sessions formation in firewalls.

Skills

Programming Languages



Python, Golang

Scripting Language



Shell scripting [Bash, Perl].

Database

Redis, KV stores

Tools

Wireshark, Nmap, Nagios, IPtables, SNORT, Scapy, Vagrant, Selenium, Ansible, Docker, Netcat, GDB, OpenSSL.

Projects

01/2016 – 03/2016

Cryptocurrency - Bitcoin Encryption and Ethereum Smart Contract Creation (Masters Project):

- Learning Bitcoin Protocol and its security issues related to encryption, Timejacking, Double Spending, Mining.
- Storage of Bitcoins: Multi-signature, Cold and Hot storage.
- Emulation of double-spent coins in bitcoin network using the reg-test in fast payments.
- Created Ethereum smart contract using Solidity on reg-test and successfully deployed on main Blockchain.