

Sampreet Kishan

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<https://samkishan.github.io/>

EDUCATION

- University of Colorado Boulder (2016-2019) CGPA: 3.5
Masters of Science (**Network Security and Engineering**)
- M.S.Ramaiah Institute of Technology, Bangalore, India(2012-2016) CGPA:9.16/10
Bachelors of Science (**Telecommunications Engineering**)

TECHNICAL SKILLS

- **Programming and scripting:** Python, C,C++, Go, PHP, Shell Scripting, Java, JavaScript, NodeJs, MySQL, Android Studio;
- **Networking and Cloud Computing Skills:** TCP/IP suite, routing (Cisco ASA 5506), switching (Cisco 300), Linux system administration, **network design and management** using SNMP (v1,v2, and v3), Wireshark, Nagios, AWS (automation using python module boto3) , **Automation using Python, Terraform, and Ansible**, Puppet, Chef, Docker, **Kubernetes, Docker Swarm and OpenStack, SDN (OpenDaylight)**
- **Security Skills:** IDS (Snort), Malware analysis (IDA, Radare), firewalls (iptables) and ACLs,vulnerability assessment (Nessus), Penetration testing (metasploit), IoT security, VLAN configuration, web application security, Security for IOT devices, data carving (scalpel), steganography, incident response design.
- **Others:** Git, GitHub, SEO, HTML5, CSS, Secure Embedded programming using Arduino, Intel Edison, Flask, Bootstrap, Application test frameworks (Selenium), verilog, MATLAB, Microsoft Office

ACADEMIC PROJECTS

- **Designed and configured a gaming web application using a robust web server (PHP) and a database server (MySQL).** Both the servers had protections against various types of web based attacks like XSS, SQLi, bufferOverflow, brute force, and encryption of sensitive data in transit as well as stationary data etc. *Source code:* <https://github.com/SamKishan/DragonBallGo>
- Built a 2-tier containerised web application using **Kubernetes using redis and Python Flask**. Source Code: <https://github.com/SamKishan/Kubernetes>
- **Automated** the configuration of **eBGP and iBGP** on cisco routers using Python. https://github.com/SamKishan/NetMan_Automation/
- **Automated** the analysis of packet captures, management and monitoring of IPv6 and IPv4 network devices, and automated the deployment of network information to AWS using python. https://github.com/SamKishan/SNMP_AWS_TCPDUMP
- **Built a secure network from scratch using Cisco ASA and 300 devices.** Learned how to designs and configure **VLANs and ACLs**. Performed **malware analysis (ida)** on one of the infected computers and made sure requests to malicious sites were redirected to a safe webpage. Host-based firewalls, and IDS were implemented on each computer within the network. *Source code:* <https://github.com/SamKishan/Git>
- **Automated the deployment** of a AWS cloud infrastructure using **terraform**.
Source code: <https://github.com/SamKishan/terraform/tree/master/a-complete-aws-environment-with-terraform>
- **Fixed a large network** comprised of over 10 Linux systems (contained DNS and DHCP servers) that was infected with a persistent virus causing boot-up problems. Analyzed the malware script and identified and attacked the weak points and restored the network to its original state.

EXPERIENCE

- Worked as an **full stack engineering intern** (July 2014-Oct 2014) at dWise HealthCare solutions, Bangalore. Learned application app development using Java and testing using selenium. Learned how to deploy IT infrastructure on the cloud (AWS).
- Work as a **security operations center (SOC) analyst** at CU Boulder from Feb 2017. Responsibilities include observing network traffic to look for breaches, signs of compromise, escalation of signs of attacks to concerned authorities etc. Tool used: QRadar from IBM