

Robin Goyal

SOFTWARE DEVELOPER & CYBERSECURITY ENTHUSIAST

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Education

BACHELOR OF ENGINEERING, MECHATRONICS, MINOR IN BUSINESS
MCMASTER UNIVERSITY, HAMILTON, ON

Graduated: April 2019

Skills

Software HTML, CSS, Javascript, Python, SQL, Bash, Ansible, Git, Linux, Openstack, Nginx, Docker

Work Experience

SOFTWARE DEVELOPER, CYBER LAB
NATIONAL DEFENCE, OTTAWA, ON

Aug. 2021 - Present

- Built a large scale red-team assessment network with a team of developers and system administrators
- Automated the deployment of diverse network appliances for use in assessment network (Ansible and Openstack)
- Created scalable solution for automated deployment of multiple assessment networks reducing the deployment time from 10 hours to 30 minutes
- Built internal application to manage scheduling of assessments with automated emails offloading 5 hours of manual work per week (Python, Flask, SQL, Nginx, and Docker)
- Engaged with stakeholders for feedback and improvements to the assessment network

SOFTWARE DEVELOPER, MISSION INFRASTRUCTURE
NATIONAL DEFENCE, OTTAWA, ON

Jun. 2019 - Aug. 2021

- Developed RESTful API enabling read-only access to JIRA instance containing an inventory of critical infrastructure (Python)
- Designed administrative web interface for bulk reprocessing of NiFi events occurring during outages reducing storage capacity requirements by 50% (Python, Flask, SQL)
- Led the architecture of a Server-Worker application and developed micro-services to task workers for automation of interactions with cloud providers
- Enabled non-technical stakeholders to interact with a custom API by developing a user-friendly CLI (Python)

Personal Experience

HOME LAB

- Built Home Lab using Proxmox hypervisor consisting of PiHole DNS server, development VM, kali VM, and sandbox VM
- Configured internal DNS and external DNS entries for internal and remote access to hosts on my network
- Enables rapid sandboxing, simulate penetration testing of various network services, and provide remote access to VM's

CTF

Oct. 2021 - Nov. 2021

- Organized, monitored, and designed a CTF competition for an internal conference comprising of 40 participants
- Designed custom steganography, network packet capture, and web application challenges
- Automated deployment and deletion of 10 challenge networks (Bash, Openstack)

Certifications

Jan. 2022 **GPEN**, GIAC Penetration Tester

Ottawa, Canada

Aug. 2021 **eJPT**, eLearnSecurity Junior Penetration Tester

Ottawa, Canada

Honors & Awards

Nov. 2021 **Deputy Chief Recognition Award**, Successful organization of first CTF for internal conference

Ottawa, Canada

MARCH 21, 2022

ROBIN GOYAL