

SAMUEL BLAIS-DOWDY

samuel.blaisdowdy@protonmail.com

Madison, Wisconsin, USA, 53719

SUMMARY

I am a French Canadian actively looking for my next challenge. I feel extremely fortunate to be a Computer Scientist because I am passionate about what I do. I see myself as a very capable developer and an upcoming data scientist, but my first love will always remain Cybersecurity.

SKILLS

- Golang
- Python
- Linux
- Ansible
- Docker
- Gitlab CI/CD
- Bash
- Makefile
- Git
- Cybersecurity

EXPERIENCE

DEVOPS ENGINEER | 05/2019 to 03/2020

Bell Canada - Montreal, QC

- Delivered a pipeline for a monolithic Django web application using Gitlab CI, Ansible roles and systemd services
- Delivered a pipeline and helped to migrate the Django monolith to a microservices architecture, using Golang, Gitlab CI, docker swarm and Ansible roles
- Automated the verification of deployments in CI/CD using the Testinfra python library
- Performed production shutdown provisioning and maintenance
- Configured Postgres alpine container for production with automated backup and restore scripts
- Configured Redis and Nginx alpine containers for production
- Performed some R&D using other technologies: GraphQL, podman/buildah, Memcached and MongoDB

SECURITY ANALYST | 05/2018 to 05/2019

Bell Canada - Montreal, QC

- Performed analysis and escalation of security threats in collaboration with Senior Security Analysts
- Participated in high-impact cybersecurity incident response and wrote report for management
- Helped improve Use Cases by providing feedback to Threat Hunters
- Used Arcsight SIEM along with other hacker tools during investigations (Nmap, traceroute, OpenSSL, Wireshark, F5 WAF, firewall vendor dashboards, Radware, IPS vendor dashboards, Arbor)
- Automated repetitive tasks using Powershell
- Documented investigations with JIRA ticketing system

TEACHING ASSISTANT | 01/2018 to 04/2018

University of Montreal - Montreal, QC

- Gave two lectures on symmetric/asymmetric cryptography
- Prepared weekly cybersecurity labs for an audience of graduate and undergraduate students
- Demonstrated and explained some popular security tools (Wireshark, aircrack-ng, Nmap, BurpSuite, metasploit)
- Created a first homework where students needed to decode various encodings, and decrypt various encryption scheme, the hardest of which was a Vigenere cipher
- Created a second homework where the students had to fully exploit a Vulnhub Virtual Machine (Fingerprinting, RCE/reverse shell through vulnerable PHP web application,

- linux privilege escalation)
- Formulated and corrected some exam questions

EDUCATION AND TRAINING

Université De Montréal - Montreal, QC

Bachelor of Science

Computer Science & Mathematics, **04/2018**

- GPA of 3.1 out of 4.3
- Co-founded a cybersecurity club where I was treasurer. We were active during 2017 & 2018. We received funding from the University to participate in the Hackfest and the NorthSec.
- Mention of Excellence from the Dean (Winter 2017)
- Master level courses in Machine Learning (IFT 6390 & IFT 6135)
- Master level course in Cryptography (IFT 6180)

University of Quebec in Abitibi-Temiscamingue - Rouyn-Noranda, QC

Bachelor of Science

Accounting, **04/2015**

- GPA of 3.7 out of 4.3
- 4 excellence scholarships (4000\$)
- 2 involvement scholarships (1500\$)

CERTIFICATIONS

LFCS: Linux Foundation Certified Systems Administrator (The Linux Foundation)

- Issued Nov 2019 - Expires Nov 2020
- https://www.youracclaim.com/badges/91b31815-ba46-471c-8771-3ddae89d0bf6/linked_in_profile

Docker Certified Associate (Docker Inc.)

- Issued Dec 2019 - Expires Dec 2021
- <https://credentials.docker.com/bc30fb8a-d836-40ae-9cca-7eb644216151>