

# Étienne St-Amant Audet

IT ENGINEERING · STUDENT

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*“To succeed, planning alone is insufficient. One must improvise as well.” — Isaac Asimov*

## Education

### ÉTS (École de technologie supérieure)

Montreal, Canada

B.S. IN COMPUTER SCIENCE AND ENGINEERING (4TH YEAR)

Sep. 2017 - Apr. 2021 (Expected)

- Consistently in the first students to understand and integrate the learning.
- Final project on the analysis of encrypted network traffic to detect behaviors linked to cyber attacks.

### Montmorency College

Laval, Canada

TECHNIQUE IN COMPUTER SCIENCE - SPECIALIZATION: NETWORK MANAGEMENT

Sep. 2014 - Apr. 2017

- Achievement: Award of Excellence for the best final presentation.
- Final Project: Develop a proof of concept of a network infrastructure using VMware ESXi, Samba, DHCP, Named, Centos and Apache.

## Experience

### Canadian National Railway

Montreal, Canada

R&D ENGINEER INTERN

Apr. 2019 - Aug. 2019

- Design a fault-tolerant infrastructure using the MQTT messaging protocol for communication with locomotives.
- Design a python application to sort, transform and transport the logs of an application to a centralized server.
- Improving data ingestion on Azure Cloud using Python, Event Hubs and Data Explorer (Kusto).
- Awarded the Generations Scholarship.

### Savoir-Faire Linux

Montreal, Canada

INFRASTRUCTURE, CLOUD AND SYSTEM ARCHITECTURE ENGINEER INTERN

Jan. 2018 - May 2018

- Contribute to the implementation of new Linux systems. (Ubuntu, CentOS and RedHat)
- Improving and implementing system monitoring with Grafana, Nagios and Shinken.
- Obtaining Red Hat Certified Specialist rank in Ansible Automation.

### Likuid

Mirabel, Canada

SYSTEM ADMINISTRATOR

Feb. 2016 -

- Perform maintenance and respond to outages on Linux and Windows servers.
- Implementation of an automated backups system to an offsite server with bash, rrsync, ssh, cron and rsnapshot.
- Complete installation automation of new cPanel servers with Ansible.
- Design and deploy an highly available infrastructure with Keepalived, MariaBD Galera Cluster, cPanel and HAProxy.

## Skills

**DevOps** Ansible, Puppet, Git, Heroku, Gcloud, AWS, Azure, Docker, OpenStack, OpenVZ, QEMU/KVM, Nagios, Zabbix, Grafana.

**Programming** Python, Flask, Java, ReactJS, NodeJS, Perl, Bash.

**Languages** French, English

## Implications

### Hackfest 2016 Participation

Quebec, Canada

PARTICIPANT

Nov. 2016

- Gather students to participate in the event.
- Seek funding from different committees.

### Emile-Nelligan Library

Laval, Canada

VOLUNTEER

Sep. 2014

- Teach basic computer skills to older people.