

# Victor Popoola

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GitHub: <https://github.com/VictorXLR>

## Education

**Dalhousie University**, Halifax, NS

September 2016 ---- August 2020

Bachelor of Computer Science with Honors

President of [Dalhousie White Hat Society](#). A student run ethical hacking society

Certifications: [BTA Certified Blockchain Developer- Hyperledger](#)

Awards: FCS-ILA USRA Recipient - Summer 2020

## Skills

C/C++, HTML/CSS/JS, React, Vue.js, Python, Java, MySQL/PostgreSQL, Node.js, Git, Unix, Kotlin, MongoDB, Flask, PHP, Rust

## Work Experience

**Full Stack Developer**

January 2020 --- March 2020

Institute for Big Data Analytics, Dalhousie University, Halifax, NS

- Implemented functionalities for interacting with Third party API's in a Django project.
- Fixed bugs on existing projects and implemented functionality that significantly improved web functionality and speed.

**Software Developer** – 2<sup>nd</sup> Work Term

April 2019 ---- August 2019

Institute for Big Data Analytics, Dalhousie University, Halifax, NS

- Created a network interfacing application which improved system performance and data collection from 30 thousand records to 2 million records per hour using Python and C libraries
- Created a decoder for the AIS message system used in maritime communication and collision avoidance systems
- Created a Single Page Application using Vue.js to visualize health and progress information from both remote and local devices/programs.
- Designed and implemented the system used for remote real-time data collection, algorithms for calculating the optimal window size to avoid data replication

- Implemented security and cryptographic features for devices responsible for remote data collection and system health
- Implemented fault avoidance systems such as shared databases for MongoDB and secure queries for PostgreSQL

## **Research Assistant**

February 2019 --- April 2019

Institute for Big Data Analytics, Dalhousie University, Halifax, NS

- Created a system to receive USGS Data for data visualization and analysis
- Created the Initial iteration of an AIS message receiver and decoder
- Created initial webserver and administrated services such as AWS, Apache Kafka and Redis
- Uses statistical analysis to identify insights and conclusions from complex data

## **Software Developer – First Work Term**

June 2018 --- August 2018

Nu-Air Ventilation, Windsor, NS

- Built a report generation system using Qt, C++ and SQLite3 for reducing workflow and streamlining communication
- Retired a visual basic application used by the company for generating reports and sketches for creating project documentation
- Created a new system for generating forms and documentation for future systems and applications
- Reported directly to the Vice President of Engineering for decision making and input
- Worked remotely and interacted with non-technical members for decision making at every step of the program

## **Projects**

ElectionApp – An Android app for society elections used in CSCI 3110 – Software Engineering

RouteFit – A fitness app built in Kotlin for CSCI 4176 – Mobile Computing

Spotify-Tweet: A Python program to tweet my actively playing song

ScreenFetch-Windows – PowerShell version of Linux ScreenFetch or NeoFetch for Windows systems

Welick – Web Implementation of text-based decision driven games

pyAISDecoder – A closed source AIS Message decoder

ShellApp – A closed source server management system to handle fallbacks, exceptions and errors

Listener – A Python network facing program to receive AIS Data and prepare it for processing

Manga Store – An e-Commerce platform written in PHP for CSCI 3172: Web Centric Computing