

# Victor Popoola

Location: Halifax, NS

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

## Skills

C/C++, HTML/CSS/JS, Vue.js, Python, Java, MySQL/PostgreSQL, Node.js, Git, Kotlin, MongoDB, Flask, PHP, Rust, Ruby, Flutter, AWS Lambda

## Work Experience

### Software Engineer

August 2021---Present

Watzan LLC, Halifax, Nova Scotia

- Created the mobile app for social audio platform, ililli.co utilizing the Flutter framework which allows developers to utilize one codebase for both android and iOS.
- Converted their existing applications into containers for cloud ready applications by utilizing Docker & Terraform.
- Created a CI/CD platform for ililli.co by utilizing Fastlane.
- Created documentation for existing and current company offerings from both developer and end users' perspective.
- Wrote unit and integration tests for apps written in ruby, dart (flutter) and workflow scripts.

### Software Engineer 1

June 2020 ----July 2021

Analyze Re, Halifax, Nova Scotia.

- Designed algorithms for efficient use of compute, memory, and networking resources.
- Worked with the Software Architect and Engineering Team lead to ensure that features are delivered on time, and in a manner consistent with the existing platform.
- Utilized AWS Features such as Lambda, S3, IAM, CloudWatch, DynamoDB and API Gateway to create features for the platform.
- Utilized technologies such as Angular.js, Docker, AWS SAM, PyTest, GRPC, ProtoBuf and PostgreSQL to create features for the platform.

### 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

**Certifications:**BTA Certified Blockchain Developer- [Hyperledger](#)AWS Certified Cloud Practitioner - [Link](#)

## Education

**Dalhousie University**, Halifax, NS

September 2016 ---- October 2020

Bachelor of Computer Science with Honors

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

Awards: FCS-ILA USRA Recipient - Summer 2020

## 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