# Victor Popoola

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## Skills

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

## Work Experience

**Software Engineer – Autonomous Vehicle Backend**                    November 2022 ---August 2023

Pronto.ai, San Francisco, California

- Created the FMS application, a react web application used for device and fleet management for cloud and on premise.
- Contributed to a python/ML codebase responsible for autonomous trucks, navigation, real time messaging, routing, and safety.
- Created software drivers for hardware devices, designed packages for dealing with hardware from different vendors and backward compatibility with existing products.
- Designed and implemented improvements to existing systems with issues ranging from security, speed, messaging, logging, databases, software versioning, setting up hardware for clients, and best security practices for software and networking stack.
- Worked on large datasets for creating detection models, training, inference and deploying models to production instances.

**Software Engineer**                    August 2021---October 2022

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 web, 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**                                          April 2019 --- 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.
- 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

## 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