# Bardia Goharanpour

(+1) 226-820-6469  |  bardiagoharanpour@yahoo.com  |  thebardia  |  bardiagoharanpour

- Passionate and eager to constantly grow in the field and expand my list of capabilities

## Skills & Concepts

| | |
|---|---|
| **Languages** | C, C++, Java, JavaScript, SQL, Python, Typescript, Eiffel, HTML, CSS, PHP, smalltalk, drRacket, QBasic |
| **Concepts** | Linux, Version-Control(Git), Concurrency, Multithreading, Synchronization, Microservices, REST APIs, Databases, UX/UI, VR, Game Engines (UE4, Unity) |
| **Frameworks** | Spring Boot |

## Work Experience

**Software Developer** *Nov. 2019 - January 2021*
LEA Consulting Ltd. *Markham, Ontario, CA*

- Developed Android application using Android Studio/Java for internal use of the company employees out on site visits, with the following abilities
  - Create an entry by taking pictures out on the field, automatically attaching geo-location to the image, as well as a description of the context entered by the user
  - Upload each entry to an SQL database on company server in real-time fashion. Each entry would belong to a project, as well as a report number
- Developed a web interface for the employees to access the submitted entries, with the ability to
  - Filter entries based on project and report number, as well as view said entries on a map, using OpenStreetMap according to their geo-location
  - Dynamically generate PDF reports by picking which entries to be included, saving the company 1.5 hours per site visit each day, estimated at 30 hours per week in our department
- Worked with the City of Toronto as a consultant on a project that would publish the Signal Phasing and Timing information (SPaT data) of all the intersections inside the City of Toronto to the Toronto Open Data Portal
  - Helped design and recommend an architecture for the propsoed system
  - Worked on defining VM requirements/software infrastructure based on system load
- Developed software for hardened PCs and sensors attached to them that would be deployed to the field and traditionally be accessed in person via a usb cable. My work included
  - Port forwarding through a modem attached to the device that would allow SSH access to the device from company servers
  - Developed scripts that would remotely/periodically read the sensor data off the hardended PC and store for historical purposes, as well as monitor the incoming data for peaks in sensor readings. In the event of a peak, an SQL database entry would be created, as well as sending an email notification to the subscribed users

**Marketing Assistant and Website Developer** *Jul. 2019 - Nov. 2019*
LEA Consulting Ltd. *Markham, Ontario, CA*

- Worked with the marketing team to curate, gather and write material for the new company website
- Developed custom webpages for the new company website using HTML, Javascript and CSS, located at WWW.LEA.CA, saving the company $5k in outsourced web developer costs

**Junior Developer** *May. 2013 - August. 2013*
Afilias Inc. *Toronto, Ontario, CA*

- Used PHP, Javascript, HTML, CSS and Python to implement and oversee weekly software updates to the company customers
- In charge of an entire new design for sections of the company website, both for client and public view

## Projects

| | |
|---|---|
| **Deep Learning** | Developed 3 distinct Deep Learning algorithms during a self-study course: a stock prediction algorithm, an animal classification algorithm, and a self-taught emotion detection algorithm that would utilize the webcam and guess the user's facial expression |
| **Robotics** | Developed algorithm intended for a robot arm with 3 degrees of freedom, connected to a webcam, and as many colored 3d printed cubes on the table. The algorithm would move the robot arm to pick the cubes one at a time and sort and stack them based on color |
| **Android App** | Developed an Android application that would accompany gym trainers at work, keeping tracking of their users, types of workouts, schedule, and number of reps/weight of the exercise performed by clients |

## Education

**B.Sc. Computer Science** *Jan. 2017 - Apr. 2019*
York University *North York, Ontario, CA*

**Computer Programming Applications Certificate** *Jan. 2016 - Dec. 2016*
Ryerson University *Toronto, Ontario, CA*