

# Bardia Goharanpour

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

## Skills & Concepts

**Languages** C, C++, Java, JavaScript, SQL, Python, Eiffel, HTML, CSS, PHP, smalltalk, drRacket, QBasic

**Concepts** Linux, Concurrency, Multithreading, Synchronization, Microservices, REST APIs, Databases, UX/UI, VR, Game Engines (UE4, Unity)

## 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 proposed 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 hardened 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

## Education

### B.Sc. Computer Science

Jan. 2017 - Apr. 2019

YORK UNIVERSITY

North York, Ontario, CA

- Relevant topics include: **C**, **Java**, **Operating Systems**, Web Development, Databases, UX/UI, VR and more
- Developed 3 distinct **Deep Learning** algorithms during a self-study course: a **stock prediction algorithm**, an **animal classification** algorithm, and the final one being a self-taught **emotion detection** algorithm that would utilize the webcam and guess the user's facial expression
- Developed algorithm used in tandem with a **robot arm** with 3 degrees of freedom and 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

### Computer Programming Applications Certificate

Jan. 2016 - Dec. 2016

RYERSON UNIVERSITY

Toronto, Ontario, CA

- Notably 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