

# SUJEETHAN VIGNESWARAN

## UNIVERSITY OF WATERLOO ENVIRONMENTAL ENGINEERING

### CONTACT



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### SKILLS

OBJECT ORIENTED PROGRAMMING

ANGULAR JS FRAMEWORK

FULL STACK DEVELOPMENT

DATABASE DEVELOPMENT

MACHINE LEARNING EXPERIENCE

ABILITY & DESIRE TO LEARN

### AWARDS

TOP 25 ENVIRONMENTALISTS UNDER 25  
- AWARDED BY THE STARFISH CANADA

CANADA 150 YOUTH AWARD FOR  
ENVIRONMENTAL STEWARDSHIP  
- AWARDED BY  
THE HOUSE OF COMMONS OF CANADA

### SUMMARY OF QUALIFICATIONS

- Utilizes a unique environmental perspective to produce creative and innovative solutions to complex problems through the application of technology.
- Created Machine Learning Training Data Collection Tools in **Python** and **Java** to Prevent Manual Collection
- Proficient in Web Development using **Angular JS Framework** to create a Nature Reserves Database Management Application
- Customized Back End **Database System** using **PHP, SQL**, and phpMyAdmin to run on Custom **In Office Web Services**
- Led a team at **Hack the North 2018** to develop The World's first Machine Learning Self-Checkout (swift-check.com) using **Google's Tensorflow.js library**
- Applied **Problem Solving** ability to debug Machine Learning code
- Dedicated to self-improvement and motivated to learn and adapt

### RELEVANT EXPERIENCE

#### FULL STACK DATABASE DEVELOPER & NATURE RESERVES TECHNICIAN

ONTARIO NATURE | 2015 - 2018

- Utilized Front End Programming knowledge to use **HTML, CSS, JS, Angular.JS** to Develop the Nature Reserves Database Application
- Applied **UX & UI Design** knowledge to make the app user friendly
- Utilized Back End Programming knowledge to use **PHP**, and **SQL** to create access to the office database servers
- Adapted to new frameworks quickly and efficiently to develop a database for the Nature Reserves Department
- Developed a web tool that will be used on a **Provincial scale**
- Conducted Field Surveys: **Ecological Land Classification & Vegetation Species Surveys** throughout Ontario using Industry & Research Standard Procedures

#### FRONT END WEB DEVELOPER & CONSERVATION TECHNICIAN

FRIENDS OF THE ROUGE WATERSHED | 2014 - 2018

- Organized and designed the launch of the **Website Rebrand** using **Graphic Design** and **Web Development** knowledge
- Increased volunteer turnout **3 fold** as a result of rebrand
- Directed the social media and marketing strategy
- Conducted and **Analyzed Stream Monitoring Data**
- Improved the Ecological health of the Rouge National Park through **organizing large scale ecological restoration projects**
- Endorsed the creation of the **Rouge National Park**, and pushed for **Ecological Integrity in the Management Plan**

### PROJECTS

#### PROJECT: SWIFT CHECK

HACK THE NORTH | SEPTEMBER 2018

Team Leader: Full Stack Development, Machine Learning Lead

- Successfully completed project within **36-hour timespan**
- Coordinated and assigned roles to team members
- Overhauled the development of the **Front End** and **Machine Learning** aspects
- Taught and coached team members fundamentals in **Angular.js** and **Machine Learning**