

# Vardan Sawhney

## CONTACTS

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Github: <https://github.com/commmai>

## LANGUAGES

- Python
- HTML5/CSS3
- C/C++
- JavaScript
- R
- LaTeX
- Racket/Scheme

## FRAMEWORKS

- Keras
- NumPy
- SKLearn
- Pandas
- Node.js/JSON
- Vanilla/React

## TECHNOLOGIES

- Vim
- Git
- OpenCV
- Arduino
- Raspberry Pi

## OS

- Windows
- Linux
- MacOS

## LANGUAGES

English, French, ASL  
Hindi, Punjabi, Urdu

## EDUCATION

### UNIVERSITY OF WATERLOO

BCS CANDIDATE FOR HONOURS  
COMPUTER SCIENCE  
Expected Grad. June 2023 | Waterloo, On

### GLENFOREST SECONDARY

INTERNATIONAL BACCALAUREATE  
DIPLOMA PROGRAMME  
Grad. June 2018 | Mississauga, On

### SHAD VALLEY

July 2016 | Waterloo, On

## EXPERIENCE

### WATONOMOUS | PROJECT MANAGER

Sept 2019 - Present | Waterloo, ON

- Monitored **\$100,000+** worth sponsorship funds that enhance access to services and promote the team's growth strategy
- Managed work team initiatives including associated work group meetings and creation of supporting documentation (i.e. presentations, timelines and reports)

### CITY OF MISSISSAUGA | IT SUPPORT TECHNICIAN

May 2018 - Aug 2018 | Mississauga, ON

- Provided support in virus protocols, system reinstall, data backup, mirroring systems and desktop setups for **3000+** city employees.
- Efficiently programmed and calibrated **300+** Ballot Machines for upcoming City Elections.

### TRILLIUM HEALTH PARTNERS | HOSPITAL AV TECHNICIAN

Sept 2017 - Aug 2018 | Mississauga, ON

- Addressed TV issues in person working independently, ensuring account connection was correct of entire Hospital Network of **500+** TVs
- Answered and supported staff calls in system setups and pillowspeaker function
- Reported on necessary inventory supplies needed to complete tasks.
- Responsible for writing documentation to support new AV technicians.

### RBC | ENTERPRISE INTEGRATION DEVELOPER

Aug 2016 | Toronto, ON

- Developed add-on applications posting user configurable RSS/Exchange Mail feeds in group activity stream, leading to **50%** increase in worker productivity.
- Reduced company expenditure for add-on application subscriptions by **\$10,000+**.

### KUMON | MATH/READING TUTOR

Sept 2013 - Aug 2018 | Mississauga, ON

- Tutored **350+** students from K through to Gr12 in Math and Reading.
- Increased student grades' from B- to A for over **150+** students.

## PROJECTS

- Innovating a 3D Printed Myoelectric NeuroProsthetic (**Arduino\OpenCV**) - provides gross motor function to amputated arms.
- Development of Pixel to Sound Analysis Program (**C++**) - allowing the blind to see art using sound.
- Heart Disease Classifier (**Python**) - used predictive modeling to predict likelihood of heart disease in patient.
- Mathematical Investigation on **SIR Models and Hardy-Weingberg Equilibrium**
- **SCAT3** Research at York University.
- **URESC** Research at the University of Toronto.

## AWARDS

2019	3 <sup>rd</sup> /250	CitizenHacks, Toronto
2018	top 100/6000	Loran Scholarship SemiFinalist
2017	2 <sup>nd</sup> /150	FraserHacks, Toronto
2017	7 <sup>th</sup> /1500	ICDC DECA Candidate
2016	2 <sup>nd</sup> /120	Application of Theme for Design Project on Food Security
2016	1 <sup>st</sup> /1500	FRC Rookie Team Champions