

# ADITYA THAKRAL

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# Student ID: 20649884

## SKILLS

### LANGUAGES

Python, Racket, SQL, HTML5, and CSS3, Haskell, JavaScript, Shell, C, C++

### HARDWARE

Leap Motion, Raspberry Pi

### TOOLS

Git, Adobe Photoshop, and Adobe Premier Pro, Orion API

## EDUCATION

### UNIVERSITY OF WATERLOO

- 1B – Computer Science Co-op
- Sep 2016 – Apr 2021 (Expected)

### AMITY INT'L SCHOOL, INDIA

- Grade 12 Cumulative: 92.2%

## AWARDS

- First Place and Most Innovative Hack for Sign Language Translator at Electric City Hacks 2016 by Trent University
- Top 10% in Euclid Contest University of Waterloo
- Faculty of Mathematics Scholarship
- University of Waterloo President's Scholarship

## EXPERIENCE

### FRONTEND DEVELOPER

*Erigeron Energy*

- Developed a solar savings calculator using HTML5, CSS3, and JS
- Managed and added features to their WordPress website

**GURUGRAM, INDIA**

*Jun 2016 – Aug 2016*

## PROJECTS

### SIGN LANGUAGE TRANSLATOR

*Python, Leap Motion, Orion API, Google TTS*

*Nov 2016*

- Led a team to build an award-winning Python application that translates American Sign Language to Speech and Text, to make communication for mute people easier
- Analyzes raw vector data of position of hands using a Leap Motion sensor to output meaningful words as speech and text
- Implemented Google Text to Speech to convert text to speech
- Built using Orion API from Leap Motion

### SYNK

*Python, Google Drive REST API*

*Apr 2016 – Present*

- Synchronizes files and folders both offline and cloud (Google Drive)
- Maintains a JSON file to store a list of directories to synchronize
- Implemented recursive synchronizing of directories

### EMERGENCY BROADCAST

*Python, Raspberry Pi 2, Google TTS*

*Nov 2016*

- Broadcasts Text messages as sound over the FM range
- Modified the transmitter antenna on the Raspberry Pi to broadcast Radio Signals along all three axes, which led to better signal quality

### PYMESSENGER

*Python*

*July 2015*

- A basic text messenger on the Local Area Network

## ACTIVITIES

### AMBASSADOR

*Tilt*

**WATERLOO, CANADA**

*Dec 2016 - Present*

- Promote Tilt amongst people at the University of Waterloo

### CHIEF GRAPHICS EDITOR

*Amity International School*

**GURUGRAM, INDIA**

*Jan 2012 – Jan 2016*

- Created graphics, edited illustrations, and managed graphics editors for high school newspaper using Adobe Photoshop

### CO-FOUNDER

*Cyber Congress – Amity Int'l School*

**GURUGRAM, INDIA**

*Jan 2014 – Jan 2016*

- Spread awareness about cyber security and recommended certain steps to stay safe online

### VOLUNTEERING

*Independent I*

**GURUGRAM, INDIA**

*Apr 2013 – Mar 2014*

- Taught and organized teaching lessons for vocational skills like baking, pottery, and salon skills to help unemployed women