# ADITYA THAKRAL

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# **SKILLS**

### **PROFICIENT IN**

Python, Racket, Git, MySQL, HTML5, CSS3, Adobe Photoshop, and, Adobe Premier Pro

#### **FAMILIAR WITH**

Haskell, JavaScript, Shell, C, C++

### **HARDWARE**

Leap Motion, Raspberry Pi

## **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 by
  Trent University
- Top 10% in Euclid Contest
  University of Waterloo
- Best Graphics (Twice) and Best Educational Poster
   High School Newspaper
- Excellence in C.S. High School – Grade 11

### **EXPERIENCE**

### FRONTEND DEVELOPER • ERIGERON ENERGY • JUN 2016 - AUG 2016

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

### CHIEF GRAPHICS EDITOR • THE GLOBAL TIMES • JAN 2012 - JAN 2016

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

### **PROJECTS**

#### SIGN LANGUAGE TRANSLATOR

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

#### SYNK

- Synchronizes files and folders both offline and cloud (Google Drive)
- Uses Python, shutil module and the Google Drive REST API
- Maintains a JSON file to store a list of directories to synchronize
- Implemented recursive synchronizing of directories

### **EMERGENCY BROADCAST • SCI 206 PROJECT**

- Broadcasts Text messages as sound over the FM range
- Modified the transmitter antenna to broadcast Radio Signals along all three axes
- Uses Python, Raspberry Pi 2, and Google Text to Speech

#### **PYMESSENGER**

- A basic **text messenger** on the Local Area Network
- Uses Python and the socket library

### **MYSQL MANAGER • HIGH SCHOOL PROJECT**

- Interface for MySQL which performs various tasks such as creating, altering, dropping tables, and inserting and deleting data into tables
- Generates and logs queries based on input from the user
- Uses Python and the MySQL Connector module

### **ACTIVITIES**

### TILT AMBASSADOR • DEC 2016 - PRESENT

• Selected as a Tilt Ambassador for University of Waterloo

### CYBER CONGRESS • CO-FOUNDER • JAN 2014 – JAN 2016

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

### INDEPENDENT I • VOLUNTEERING • APR 2013 - MAR 2014

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