

ADITYA THAKRAL

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SKILLS

PROFICIENT IN

Python, Racket, Git, MySQL, HTML, CSS, Photoshop, and 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 2017 (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 Text and Speech
- Identifies 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**

PYMESSANGER

- 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 steps to stay safe in high school

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