

ADITYA THAKRAL

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SKILLS

LANGUAGES

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

HARDWARE

Leap Motion, Raspberry Pi

TOOLS

Git, Adobe Photoshop,
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, leading to better signal quality

PYMESSANGER

Python

July 2015

- A basic text messenger on the Local Area Network

ACTIVITIES

OFFICE STAFF

CS Club, UWaterloo

- Managing the CS Club database

WATERLOO, CANADA

Jan 2017 - Present

CHIEF GRAPHICS EDITOR

Amity International School

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

GURUGRAM, INDIA

Jan 2012 – Jan 2016

CO-FOUNDER

Cyber Congress – Amity Int'l School

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

GURUGRAM, INDIA

Jan 2014 – Jan 2016

VOLUNTEERING

Independent I

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

GURUGRAM, INDIA

Apr 2013 – Mar 2014