

# AMBAAREESH BALAJI

1A Software Engineering, University of Waterloo

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## TECHNICAL SKILLS

**Proficient:** C/C++, Python, JavaScript (ES6+), HTML5, CSS3, Git, MySQL, Linux and Unix, Bash, Zsh  
**Familiar:** Java, Node.js, jQuery, Photoshop, GIMP

## PROJECTS

### Sign Language Translator 🗣

Python2.7/Leap Motion Orion SDK *Nov 2016*

- A translator that detects **American Sign Language** using a **Leap Motion** Sensor and converts it to text and then to speech using Google Text to Speech
- Helps hearing and speech impaired people better communicate with others
- Won the **First Place** and the "**Most Innovative Hack**" award in Electric City Hacks 2016, Trent University, Peterborough, ON

### ASCIInator 🗣

Python3.5/python-pillow *Sep 2016*

- A python script that **converts** pictures to **ASCII art**
- Made a **mod** that "**displays**" a picture in an xterm-compatible terminal emulator

### HyperSpace

C++/Arduino Wire/OrbitOled *Nov 2016*

- A **space-shooter** game for the Tiva Launchpad using the Orbit BoosterPack.
- Utilizes various **sensors** like the **accelerometer**, **thermometer**, and **potentiometer** on the board.

### Board Games Advance 🗣

C++ *Mar 2016*

- 2048, Tic-Tac-Toe, and Snakes and Ladders for the terminal
- Demonstrates simple **AI** algorithms

## ACADEMICS

### University of Waterloo

Waterloo, ON

Bachelor of Software Engineering Co-op (BSE) *Sep 2016-Apr 2021*

- National Scholarship (\$12000), **one** out of 12 Canada-Wide
- President's Scholarship (\$2000)

## AWARDS

### Distinction, Top 10%

Euclid Contest *May 2016*

- Scored 78/100

### High Distinction

Australian National Chemistry Quiz (ANCQ) *Aug 2015*

### Fellowship, Rank 172

Kishore Vaigyanik Protsahan Yojana (KVPY) *Nov 2014*

- **One** out of 350 India-wide
- **Direct admission** to Indian Institute of Science

### Scholarship, Rank 180

National Talent Search Examination (NTSE) *Nov 2013*

- **One** out of 773 India-wide

## INTERESTS &

## HOBBIES

Rubik's Cube • Twisty Puzzles • Chess  
• Badminton • Squash • Tennis • Swimming