

# AMBAREESH BALAJI

University of Waterloo • 1A Software Engineering

🏠 ambyjkl.me

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🐙 Ambyjkl

in Ambyjkl

## 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
- Helped 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

### HyperSpace

C++, OpenGL, Arduino Wire, OrbitOled

Nov 2016

- Shoot-em-up game in OpenGL with Tiva Microcontroller + Orbit BoosterPack as controller
- Utilized various **sensors** like accelerometer and thermometer, and buttons on the board.

### 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

### Board Games Advance 📺

C++

Mar 2016

- 2048, Tic-Tac-Toe, and Snakes and Ladders for the terminal
- Demonstrated simple minimax **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 📺

- Scored 78/100

### High Distinction

Australian National Chemistry Quiz (ANCQ) 📺

### Fellowship, Rank 172

Kishore Vaigyanik Protsahan Yojana (KVPY) 📺 W

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

### Scholarship, Rank 180

National Talent Search Examination (NTSE) 📺 W

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

## INTERESTS & HOBBIES

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