

Ambareesh (Amby) Balaji

University of Waterloo • 1B Software Engineering

TECHNICAL SKILLS

Experienced: C/C++, Python, JavaScript, jQuery, HTML, CSS, Git, Linux and Unix, Bash, Zsh

Familiar: Node.js, React.js, Firebase, Java, MySQL

PROJECTS

handle

React Native, Node.js, Firebase

Jan 2017

- Codeveloped a mobile app that lets users request other users to shop for them and deliver the goods home and vice-versa
- Helps university students manage the time they spend on grocery shopping and/or earn extra money in their free time
- Worked on implementing login screens, the maps API, and the algorithm that matches requesting users to the delivering users

Sign Language Translator

Python2.7, Leap Motion Orion SDK

Nov 2016

- Built 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
- Implemented gesture detection features to detect various signs
- Won the First Place and the "Most Innovative Hack" award in Electric City Hacks 2016, Trent University, Peterborough

HyperSpace

C++, OpenGL, Arduino Wire, OrbitOled

Nov 2016


- Codeveloped a shoot-em-up game in OpenGL with the Tiva Microcontroller (Launchpad) with the Orbit BoosterPack as the controller
- Worked on the controller and its synchronization with the host
- Implemented accelerometer and gyroscope for motion control

ASCIInator

Python3.5, python-pillow

Sep 2016

- Wrote a script that converts images to ASCII art and colored pixel art in plain text to display pictures on the terminal
- Implemented the pixel art features and the command line arguments that control resolution and detail

 ambyjkl.me

 a3balaji@edu.uwaterloo.ca

 ambyjkl

 ambyjkl

ACADEMICS

University of Waterloo

Waterloo, ON

Bachelor of Software Engineering co-op (BSE) Sep 2016–Apr 2021

- 95.45% (4.0 GPA) in 1A (fall 2016)

AWARDS

National Scholarship \$12,000

Faculty of Mathematics, University of Waterloo

- One out of 12 Canada-wide

Distinction, Top 10%

Euclid Contest, University of Waterloo

- Score: 78/100

Fellowship

Young Scientist Incentive Plan (KVPY)

- One out of 350, rank 172 India-wide
- Direct admission to Indian Institute of Science, Bengaluru, India

Scholarship

National Talent Search Examination (NTSE)

- One out of 773, rank 180 India-wide

ACTIVITIES

- Volunteer at the CS4U day, 2016 (computer science outreach event for students in grades 9 to 12 by the University of Waterloo)
- Volunteer at the Earth Sciences Museum, University of Waterloo

HOBBIES AND INTERESTS

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