

ABHAY JYOTISH GOPINATHAN

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Summary of Qualifications

- **Team player** that understands the value of teamwork having held several leadership positions
- **Fast learner** seeking to gain technical experience to add to list of projects I have excelled in

Education

BASIC COMPUTER ENGINEERING | 3RD YEAR | UNIVERSITY OF TORONTO

- Focus on Software and Hardware
- CGPA: 3.48

Skills & Abilities

- **Languages:** C/C++, Python, Verilog, HTML, CSS, MATLAB
- **Tools/Frameworks:** Xilinx Vivado/ISE, Intel Quartus, Git, Linux, Bootstrap, Google Cloud

Experience

SUMMER RESEARCH STUDENT | ISML LAB, UNIVERSITY OF TORONTO | MAY '20 – AUG '20

- Debugged Verilog code for image sensor using simulations and by testing hardware
- Adapted firmware between different versions of image sensors and produced documentation

FLOOR SOCIAL COORDINATOR | CHESTNUT RESIDENCE | SEPT '19 – MAY '20

- Organised monthly events on my floor at my university residence to provide opportunities for students to form deeper connections with each other
- Organised larger building wide events with a team of other Social Coordinators

Projects

- **Maps:** C++ program that provides navigational data, similar to Google Maps. I was involved in making an API for OSM data, in developing path finding algorithms. I made the GUI using Gtk.
- **Minesweeper:** C program remaking Minesweeper for DE1-SoC board that uses memory mapped I/O, using a VGA monitor and push PS2 Keyboard.
- **Vision Checker:** Website built for MedHacks that allows users to conduct an eye test at home. I was involved in scoring the users responses using Google Cloud speech to text API. I also did some work on the HTML/CSS front end.
- **Music Player:** Python program to play music files as well as record audio clips. GUI was built using tkinter, sound processing was done using pygame and pyaudio.

Awards

- Google Cloud COVID-19 Hackathon Fund, MedHacks 2020
- Dean's Honour List (Fall 2018, Winter 2019)
- Highest mark in world, Cambridge IGCSE Coordinated Sciences, 2015