

# YOUSOF HOSNY

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## PROJECTS

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### Portfolio Website Template *HTML, CSS*

A modern Gatsby.js template created for professional websites.

### Visual Studio Code LaTeX Extension *Javascript*

An extension for taking LaTeX notes in Visual Studio. Allows for custom macro definitions and auto-complete increasing overall note-taking speed.

### Cliffed Ball *Python, Pygame*

A desktop game with a full user interface (settings, home page, game, store page) and ability to save game state.

### VertiShot *Swift*

IOS app that enables users to take vertically or horizontally aligned photos using the phone's gyroscope. Intended for architectural photos and scanning documents using the camera.

### Maze Backtracker *C++*

A command-line maze generator created to help visualize a recursive backtracking algorithm for maze generation.

### Robotics Soccer Simulation *Python, Pygame*

Simulation environment for different artificial intelligence strategies to be tested against each other. Used by high school robotics team to develop and rank strategies to be used in competitions.

### Mood Lift *HTML, CSS, JavaScript*

Hackathon project for helping track mental health in children. The web app consists of a simple daily quiz which stores the user's daily mood and offers long-term insights.

## EXPERIENCE

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### 3D Diagnostix

Web Developer Intern - Unpaid

Toronto, ON

Jul 2018 - Aug 2018

- Created a mobile friendly table lay-out for the in-house CRM software used by employees
- Developed the web app in HTML, CSS, and Javascript using Cordova to port to mobile
- Integrated the web app with the company databases using SQL

## SKILLS

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Languages: C, C++, Python, JavaScript, Scheme/Racket, HTML, CSS, SAS  
Tools: Git, Github, LaTeX, Pygame  
Software: Excel, Word, Vim

## ACHIEVEMENTS

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### Waterloo Euclid Senior Mathematics Contest

Scored in the top 10% of participants

University of Waterloo

April 2019

### Cyber Patriot National Medalists

Achieved silver medal as a team in the Canadian cyber security competition finals.

Air Force Association Cyber Patriot

May 2019

## CERTIFICATIONS

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### CPA - C++ Certified Associate Programmer Certification

object-oriented model and its implementation in C++

C++ Institute

Jan 2018

### SAS - Certified Base Programmer for SAS 9

manipulate and transform data in SAS, combine SAS data sets, create summary reports using SAS procedures

SAS®

Jun 2018

## EDUCATION

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### University of Waterloo

BCS Computer Science (Class of 2024) *GPA: 3.88*

Waterloo, ON

Sep 2019 - Current