

YOUSOF HOSNY

Toronto, ON · yhosnysa@uwaterloo.ca · (647)-629-5842 · hosny.ca

SKILLS

Languages:	C++, Python, C, Bash, JavaScript, Racket, SAS, R, HTML/CSS
Technologies:	React, Node, Pygame
Software / Tools:	Linux, Vim, GNU tools, Git, Github

EXPERIENCE

The Product Initiative - ConnectEd

Toronto, ON

Software Developer - Full Stack

Summer 2020

- Worked as part of the developer team creating an app to connect students by matching based on common interests
- Developed a prototype app using serverless stack with React Native and Firebase cloud services.

3D Diagnostix

Boston, MA

Web Developer Intern

Summer 2018

- Created a mobile friendly (HTML/CSS) table lay-out for the in-house CRM used by employees
- Introduced to collaborative software development and RESTful API design

PROJECTS

Straights Card Game C++

Object oriented implementation of the Straights card game with use of Model View Controller and Strategy design patterns. Adhered to RAII principles through use of smart pointers and STL containers and algorithms.

Coursaver Python, Selenium

Automates two factor authentication and downloading of online content for multiple UW Learn courses. Designed to allow quick and convenient saving of all course content for future reference.

Cliffed Ball Python, Pygame

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

Conway's Game of Life C++

Implementation of Conway's game of life using object oriented observer design pattern. Allows for both text-based and graphical interface simultaneously using multiple observers.

Personal Website HTML, CSS

hosny.ca

A modern minimalist website featuring R Markdown/LaTeX notes for various courses completed at University of Waterloo.

Maze Generation C++

A terminal-based maze generator to visualize recursive backtracking algorithm for maze generation.

ACHIEVEMENTS

Waterloo Euclid Senior Mathematics Contest - Distinction

University of Waterloo

Scored in the top 10% of participants

April 2019

Waterloo Senior Canadian Computing Contest - Distinction

University of Waterloo

Scored in the top 25% of participants

February 2019

Cyber Patriot National Medalists

Air Force Association Cyber Patriot

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

May 2019

CERTIFICATIONS

CPA - C++ Certified Associate Programmer Certification

C++ Institute

Object-oriented model and its implementation in C++

Jan 2018

SAS - Certified Base Programmer for SAS 9

SAS®

Manipulate/transform data, combine SAS data sets, summary reports using SAS procedures

Jun 2018

EDUCATION

University of Waterloo

Waterloo, ON

BCS Computer Science (Class of 2023): Cumulative GPA: 91% | Major (CS) GPA: 94%

- President's Gold Scholarship - Admission scholarship \$4,000