Yousof Hosny

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Projects

Personal Website *HTML, CSS*
A modern minimalist website featuring markdown/LaTeX notes for various courses completed at University of Waterloo.

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 Generation *C++*
A terminal-based 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 to help track mental health in children.

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 the mobile app using a React Native front-end and Firebase cloud platform

3D Diagnostix — Toronto, ON
Web Developer Intern - Unpaid — Jul 2018 - Aug 2018

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

Skills

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

Achievements

Waterloo Euclid Senior Mathematics Contest — University of Waterloo
Scored in the top 10% of participants — April 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 - Certfified Base Programmer for SAS 9 — SAS®
manipulate and transform data in SAS, combine SAS data sets, create summary reports using SAS procedures — Jun 2018

Education

University of Waterloo — Waterloo, ON
BCS Computer Science (Class of 2024) *GPA: 3.9* — Sep 2019 - Current