

YOUSOF HOSNY

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PROJECTS

Portfolio Website Template *React.js, HTML, CSS, Node.js, Gatsby.js*

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.

Nuclear Bits

Ongoing game development project using the open source Godot game engine. A cross platform arcade shooter game (Windows, Linux, Android, IOS) with endless randomly-generated levels where the player attempts to achieve a high score.

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

3D Diagnostix

Boston, MA

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 in HTML, CSS, and Javascript using Cordova to port to mobile
- Integrated the web app with the company databases using SQL

SKILLS

Programming Languages: C, C++, Python, JavaScript, Scheme, Racket, SAS

Tools: Git, Github, LaTeX, React, Gatsby, Pygame

Software: Excel, Word, Vim, Photoshop

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 - Certified 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: 3.88

Sep 2019 - Current