ONOR O'MALLEY

conor4arms@gmail.com

in linkedin.com/in/conorpo github.com/conorpo conorpo.github.io/

Education

University Of Central Florida

Bachelor of Science in Computer Science, BS

Aug. 2020 - Dec 2023

Orlando, FL

Cypress Creek High School

High School Diploma

Aug. 2016 – June 2020

Orlando, FL

Relevant Coursework

• Machine Learning

• Computer Science I & II

- Discrete Structures I & II

• Principles of OOP

• Security in Computing • Differential Equations

• Robot Vision

• Computer Graphics

Experience

Dosed Inc.

Aug 2018. - Feb. 2019

Backend Developer

Remote

- Worked to develop an online shopping web-application.
- Created database models, express middleware, routes, and services such as a role-permission service, a user service, and a shipping-address service.

StemEduc8

June 2018 - September 2018

Math and Computer Science Tutor

Orlando, FL

• Worked with students to teach them computer science and math skills, both one-on-one and in a classroom format, with a focus on calculus and programming.

Projects

School Nodemap | Javscript, Canvas API

June 2018 - Aug 2018

- Built an online tool to create visual graphs, allowing for labeled nodes, weighted edges, and cosmetic settings on nodes.
- Made a separate tool that utilizes those graphs for helping students plan out class navigation at their school.

Raymarching Mandelbulb Visualization | Javscript, WebGL, GLSL

• Using WebGL and raymarching algorithms, I created an in-depth visualization of the mandelbulb (a three-dimensional extension of the mandelbrot set) with advance camera controls and lighting. The rendering was done completely from scratch in a fragment shader.

Budget VR | Javscript, WebGL, Socket.IO, Express

KnightHacks 2021

• In 24 hours made a virtual video call site, where users can connect online and see each others video feeds represented as 3D objects in virtual space (Before Meta Verse was even announced)

Capstone Project: Electronic Enforcers | Unity, C#, Blender

June 2023 - Nov 2023

- Made a military training simulator that allows players to test themselves in realistic electronic warfare scenarios.
- Used brand-new Unity paradigm DOTS, which required me to make various systems with no examples or clear documentation.

WebGPU Marching Cubes | Javscript, WebGPU, WGSL

Oct 2023 - Dec 2023

• In 24 hours made a virtual video call site, where users can connect online and see each others video feeds represented as 3D objects in virtual space (Before Meta Verse was even announced)

Technical Skills

Languages (in order of proficiency): Javascript, C++, WGSL, GLSL, Python, Java, Rust, C#

Developer Tools: VS Code, gcc, git, bash, Unix, npm, aws, gcp

Technologies/Frameworks: TypeScript, Express, Node.js, Vue, React, MongoDB, Svelte

Leadership / Extracurricular

Programming Team

Varsity Member

Aug. 2020 - July 2022

University of Central Florida

- Placed highly in regional and national competitions including ICPC and Mercer.
- Developed critical problem solving and team building skills while competing.
- Learned various additional computer science data structures, algorithms, and strategies.