James Conroy

Washington DC

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Education

B.A. Computer Science - May 2019

The Catholic University of America, Washington DC

Relevant Coursework: Artificial Intelligence, Unix Programming, Computer Graphics, Operating Systems, Analysis of Algorithms, Data Structures, Software Engineering

Senior Design Project

My team and I, created a system to find efficient pathways for autonomous ground vehicle, using an aerial drone. The project involves Raspberri Pi's, Arduino's, and computer vision.

Technical Skills

Languages c, c++, c#, Java, Processing, Matlab, SQL, Python

Tools Vim, Git, Windows, Linux

Projects

Grid Search on a Cost Map   **March 2019**

This project uses a variety of search algorithms to find a path from the start to the goal. The algorithms used are: Breath First Search, Depth First Search, and A*.

Queen Teams Problem   **Febuary 2019**

This project finds a configuration where no queen threatens an enemy queen. The project uses a hill climbing algorithm to find the solution. Made using c++.

K-Distance Dominationi   **April 2018**

This project generates a random vertex edge graph and then finds the set of nodes within k steps from any node. Made using Processing

Cube Quest   **November 2016**

I contributed the environment for this student made computer game. The project was made using the OpenGL library for Java.

Work Experience

Technology Services   **Fall 2015 to Present**

Employed by The Catholic University of America, I provided technical support for users over the phone, via email, and in person. The support includes but is not limited to: resetting passwords, installing software, installing computers, installing new hardware in computers, and connecting computers to the campuses Active Directory.

Technology Center Instructor   **Summer 2016**

Employed by the Boy Scouts of America, Mason Dixon Council Hagerstown, PA Sinoqipe Scout Reservation, I instructed 4 merit badge session, leading hundreds of scouts to earn the Personal Management, Space Exploration, and Electronics merit badges.

Technology Center Director   **Summer 2015**

Employed by the Boy Scouts of America, Mason Dixon Council Hagerstown, PA Sinoqipe Scout Reservation, I set up and ran the technology program for the camp season, lead three merit badge sessions, and managed two staff members.

Awards and Honors

Eagle Scout – 2012

Nominated for CUA Student Worker of the Year

Nominated for best Undergraduate Project at CUA Research Day 2018

Sinoquipe Scout Reservation – Honor Staff Award

Sinoquipe Scout Reservation – Program Director Award of Recognition

Sinoquipe Scout Reservation – Camp Director Award of Recognition

Third place in AARP's Fraud Watch Network's 2017 Hackathon

CUA Scolarship 50%