

James M. 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 created a system to find efficient pathways for autonomous ground vehicles, using an aerial drone. The project involves Raspberry Pis, Arduino, 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: Breadth First Search, Depth First Search, and A*.

Queen Teams Problem

February 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 Domination

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 campus' Active Directory.

Technology Center Instructor**Summer 2016**

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

Awards and Honors

Eagle Scout**2012****Nominated for CUA Student Worker of the Year****2018****Nominated for best Undergraduate Project at CUA Research Day****April 2018****Cash award winning AARP's Fraud Watch Network's Hackathon****February 2017****Sinoquipe Scout Reservation — Honor Staff Award****August 2016****Sinoquipe Scout Reservation — Program Director Award of Recognition****August 2016****Sinoquipe Scout Reservation — Camp Director Award of Recognition****August 2016****CUA Scholarship**