James M. Conroy

Washington DC

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Education

The Catholic University of America **Bachler of Science Computer Science** **Expected May 2019**

Relevant Coursework: Artificial Intelligence, Analysis of Algorithms, Data Structures, Software Engineering

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.

Projects

Integrated Drones

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.

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.

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 **August 2016**

Honor Staff Award, Program Director Award, Camp Director Award

Technical Skills

Programming Languages: c, c++, c#, Java, Processing, MATLAB, SQL, Python
Tools: Vim, Git, Windows, Linux