

# 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

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## Senior Design Project

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

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## Technical Skills

**Languages** c, c++, c#, Java, Processing, MATLAB, SQL, Python

**Tools** Vim, Git, Windows, Linux

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## 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

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.

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## 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 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, lead three merit badge sessions, and managed two staff members.

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## Awards and Honors

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