

# James M. Conroy

Washington DC

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## Education

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

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

## Work Experience

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### 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

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### 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.

### 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

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### Eagle Scout

**2012**

### Nominated for CUA Student Worker of the Year

**2018**

### Nominated for best Undergraduate Project at CUA Research Day

**April 2018**

### Sinoquipe Scout Reservation

**August 2016**

Honor Staff Award, Program Director Award, Camp Director Award

## Technical Skills

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

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