

James M. Conroy

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Education

The Catholic University of America **Bachelors of Science, Computer Science** **May 2019**
Relevant Coursework: Analysis of Algorithms, Data Structures, Software Engineering, Unix Programming

Projects

Integrated Drones **September 2018 — May 2019**
Created, as part of a five person team, an aerial drone system to find efficient pathways for autonomous ground vehicles. The project was made using Raspberry Pis and Arduinos, and implemented in Python.

Queen Teams Problem **February 2019**
Created an AI to find a solution to a variation of the classic chess queens problem. The AI was implemented in C++ and used a hill climbing Algorithm.

K-Distance Domination **April 2018**
This program generates a random vertex edge graph and finds the minimum K distance dominating sub graph. This was the subject of my 2018 Research Day presentation. Made using Java/Processing.

Cube Quest **November 2016**
Contributed the environment for this student made computer game. The project was made using the OpenGL library for Java.

Work Experience

Technology Services **The Catholic University of America** **Fall 2015 to Spring 2019**
Provided technical support for users over the phone, via email, and in person. The support included but was 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 **Boy Scouts of America** **Summer 2016**
Set up and administered a lab of 25 Ubuntu Linux laptops. Instructed merit badge sessions and, led six hundred scouts to earn the Personal Management, Space Exploration, and Electronics merit badges.

Technical Skills

Programming Languages: AWK, C, C++, C#, Java, MATLAB, Processing, Python, SQL.
Tools: GIT, Linux, SED, VIM, Windows.

Awards and Honors

Nominated for CUA Student Worker of the Year **May 2018**
Nominated for best Undergraduate Project at CUA Research Day **April 2018**
Eagle Scout **2012**