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, Robotics, Computer Graphics, Unix Programming

Technical Skills

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

Work Experience

Technology Services **The Catholic University of America** **September 2015 to May 2019**

- Installed computers:
  - Installed the University's OS
  - Created necessary users
  - Installed and validated necessary software
  - Connected to the Campus' domain for active directory management
- Migrated Campus Computers to new OS
  - Windows 7 to 10
  - Mac OS High Sierra to Mac OS Mojave
  - Using USB install media and PXE network boot.

Technology Center Instructor **Boy Scouts of America** **Summer 2016**

- Lab Administration
  - installed 25 Ubuntu Linux Computers
  - limited internet access using the router's MAC white list feature
- Counseled six hundred scouts taking the following merit badges:
  - Personal Management
  - Space Exploration
  - Electronics

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.

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**