GREGORY HUBBARD
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EDUCATION

Old Dominion University
Computer Engineering   **2017 - Present**
ODU First Year Student Success, Academic Excellence First Year Scholar
Honors: Dean's List

Thomas Nelson Community College   **Aug 2016-Aug 2018**

WORK EXPERIENCE

NASA Kennedy Internship
Command and Control Software Engineering Intern**:**   **Aug 2019 – Dec 2019**
Developed functional tests for Class A, human-rated, safety critical telemetry
and command processors in a launch control system, participating in the full
software development lifecycle with full-time engineers and following agile
development processes. Software developed for use on the SLS rocket system.

NASA Langley Internship
Science Instrument Ground Software Support Intern**:**   **Jun 2018 – Aug 2018**
Ground software support to improve integration, testing, and data analysis.
Assisted LaRC software engineers to expand current capabilities and add
additional features.

Beach Lifeguard at Dam Neck Annex   **May 2018 – Sept 2018**
Lifeguard

Oceana Naval Air Station Gym Aid   **Dec 2017 – Sept 2018**
Front desk customer service providing recreational assistance to patrons.

RESEARCH

Undergraduate Research - Vulnerability Management
Center for Cybersecurity Education and Research (CCSER) Old Dominion University
Funded by National Science Foundation (NSF)   **2018-2019**
Topical study of current software vulnerability management.
Research supported by data collected though relevant experimental manners at AECOM.
Final comprehensive report and poster completed by the end of the spring 2019 semester

Undergraduate Research Fellow – Computational Neuroscience
University of Miami (REU-NSF Computational Neuroscience)   **May 2019 – Aug 2019**
Research surrounding the use of Convolutional Neural Networks for image processing. Part of a
multi-disciplinary team utilizing deep neural networks to better understand the visual system. Final
report presentation concerning alterations of images on large datasets (NORB,BSDS300, etc.) on
AlexNet architecture.

TECHNICAL EXPERIENCE

Programming (High proficiency)
Language Experience
Highly proficient with work experience in C++, Java, HTML, XML.

Programming (proficiency)
Language Experience
Proficient in VHDL, MATLAB, TI-Basic, PHP, Python, Swift, SQL

Data Science (proficiency)
Language Experience
Conducted summer research using Neural Networks using tensorflow, matlab, and NumPy

Mark Up Languages
Industry Experience   **Jun 2018 – Aug 2018**
Industry experience surrounding markup languages such as XML and HTML in data base management applications.

Programing
Industry Experience   **Jun 2018 – Aug 2018**
Developed a proprietary software that facilitates in the translation of ingested command meta data into XTCE (XML Telemetric and Command Exchange) format.

AWARDS

NASA Virginia Space Grant Consortium Scholar, Virginia Earth Systems Science Scholar   **June 2017**

Governor's Certificate of Recognition – Early College Scholars Program   **June 2017**

NASA Virginia Space Grant Consortium Scholar, Virginia Aerospace   **June 2016**
Science and Technology Scholar

Knights of Columbus Scholarship   **2017**

EOD Memorial Scholarship   **2017, 2018,2019**

RELATED EXPERIENCE
ODU Club Swim Team
President   **Aug 2018 – May 2019**
Provides leadership and organization for Old Dominion University's club swim team. Manages the logistics and funding for numerous away meets and over 20 members.   Head Swim Coach.

Astronomy
Club/Hobby   **Jun 2018 – Aug 2018**
Member of the NASA LaRC "Skywatchers Club" during summer 2018 internship.