

GRIFFIN R. HALLORAN

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Skills

Coding: Proficient in Python, C++, MATLAB, LATEX, ROS, RPAs, and insight in Windows, Linux, SQL, C, Java, and Git data structures

Machine Learning: Knowledgeable in heuristic studies, AI programming, Bayesian Networks, Markov Models, Linear and Nonlinear Regression, and Neural Networks

Work Experience

L3Harris Technologies – Autonomous Software Engineer **Feb 2021 – Present**

- Work in the Autonomous Surface Vehicle team to develop electronics automation software using C++ for self-driving, unmanned ocean vessels
- Design and implement a multi-heuristical variant of the A* path finding algorithm, allowing us to construct different AI behaviors by swapping the desired heuristics in and out
- Implement a final safety method for the ship's AI, which fully takes over the boat in scenarios where a collision would be imminent, and guides the ship to safety

Caterpillar Inc. – Robotic Process Automation and Machine Learning Intern **June 2020 – Aug 2020**

- Wrote machine learning programs to automatically detect, classify, and file site-wide invoices
- Implemented programs to segment and categorize text for handwritten checks
- Developed Robotic Process Automations to automate company processes

Naval Surface Warfare Center - Crane – Department of Navy Pathways Internship **Aug 2017 – Aug 2019**

- Developed cyber security and ROS robotics programs for the Platform Engineering Branch for an increase in online safety and robotic performance
- Created a research laboratory for machine learning to further on-base understanding
- Designed an object detection program to classify images identified from security cameras

Education

Luddy School of Informatics, Computing, and Engineering - Indiana University Bloomington **December 2020**

Master of Science in Computer Science

Cumulative GPA: 3.6

Projects

Indiana University, Computer Vision Lab - Research Assistant **Jan 2019 – Dec 2020**

- Research architectural techniques used to design accelerators for neural networks to reduce network computational costs
- Investigate visualization methods for machine learning practices to gain a better understanding of debugging practices

Awards and Memberships

Indiana University School of Informatics and Computing Direct Admit **Aug 2016 - Present**

Indiana University Hutton Honors College Admit **Aug 2016**

Indiana University School of Informatics and Computing Executive Dean's List (3.7/4.0) **FA17, FA18**