

MARY MARTIN

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Education

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| University of Colorado Boulder, Boulder CO | 2019-2024 |
| ▪ 3.88 GPA. CS PhD student, specializing in AI & Robotics (expected graduation May 2024) | |
| Towson University, Towson MD | 2014-2019 |
| ▪ 3.58 GPA. Bachelor of Science in Computer Science (degree conferred May 2019) | |

Experience

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| Research Assistant Autonomous Robotics & Perception Group, University of Colorado Boulder | Aug '19-present |
| ▪ Conduct research that combines computer vision and natural language processing methods to improve inference capabilities for robots in problem scenarios that involve language and vision | |
| Data Engineering & Biometrics Graduate Intern MITRE (McLean, VA) | May '19-Aug '19 |
| ▪ Explored the feasibility of combining few-shot object detection methods with small object detection methods for satellite imagery | |
| ▪ Applied transfer learning techniques to problem scenarios that required object detection with the purpose of training on small annotated datasets | |
| Research Assistant Towson University | Aug '18-Feb'19 |
| ▪ Examined the application of transfer learning on classifying non-functional requirements in software development settings | |
| Data Analyst Intern Nationwide Insurance Enterprise Data Office (Columbus, OH). | May '18-Aug'18 |
| ▪ Created a Python script to provide descriptive statistics based on large XML files received from the vendor and to assist Data Analysts with creating new database architectures | |
| ▪ Created data mapping documents to send data to sync to the Nationwide legacy system | |

Projects

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| MITRE Summer Intern Hackathon (2nd Place Winner) | July '19 |
| ▪ Developed an application that increases accessibility in meetings for those with hearing loss, inability to speak, or autism | |
| Nationwide Enterprise Hackathon | July '18 |
| ▪ Developed a web application to assist with intern onboarding and event coordination | |

Technical Skills

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- Languages/Frameworks: Python, Java, HTML/CSS, SQL, Angular, MATLAB, MongoDB, JavaScript/TypeScript, JSON, XML
 - Operating Systems: Windows, Linux, MacOS, ROS
 - Other Skills: Git/version control, database management, Python packages for data analysis, MEAN stack development, Tensorflow, Keras, PyTorch, machine learning methodologies, Docker, object-oriented design patterns
 - Relevant Coursework: Computer Science (I & II), Data Structures/Algorithm Analysis, Computer Architecture, Linear Algebra, Operating Systems, Software Engineering, Database Management, Object Oriented Design, Programming Languages, Web-based Programming, Software Testing & Assurance, Advanced Robotics, Linear and Integer Programming, Deep Learning and Neural Networks, Special Topics in Robotics, Convex Optimization

Honors

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- 2019 Dean's Award Recipient, University of Colorado Boulder Dean of Engineering
 - Towson University Dean's List
 - 2017 Grace Hopper Scholar