

ALEX DAY

Grove City, PA · adday@clemson.edu · (724) 841 2634 · <https://www.alexday.me>

EDUCATION

Clemson University

Ph.D. Computer Science (*GPA: 4.0/4.0*)

Clemson, SC

September 2020

Clarion University of Pennsylvania

B.S. Computer Science (*cum laude*)

Clarion, PA

August 2016 - December 2019

SKILLS

Programming Languages: Python, Java, C#, C/C++, HTML/JavaScript/CSS

Technologies: Linux, Git, L^AT_EX, Tableau, Robot Operating System/Gazebo, SQL

EXPERIENCE

Clemson University

Graduate Research Assistant

Clemson, SC

September 2020

- Working with Dr. Ioannis Karamouzas on learning multi-robot navigation from human data
- Developing a pipeline for efficient quantitative evaluation and visualization of collision avoidance techniques

Clemson University

Lead Graduate Teaching Assistant

Clemson, SC

September 2020

- Assist faculty members with instruction using remote learning technologies
- Lead two lab sections of 30 students to reinforce new software development techniques

JGMS Inc.

Data Scientist (R&D)

Grand Rapids, CO

May 2020 - September 2020

- Designed neural networks for massive document classification and bid prediction with Keras in Python
- Developed REST API using Flask to expose an endpoint for document summarization and classification
- Conducted market research to determine market gaps for future projects

University of Arizona

CAT Vehicle Research Assistant (REU)

Tucson, AZ

May 2019 - August 2019

- Created a domain specific language to create autonomous vehicle paths with 3 other students
- Developed a verification server in Flask that proved the safety of a given path
- Prepared and presented research at the UROC conference at the University of Arizona
- Extensively tested the language and verification in both simulation and on hardware

PROJECTS

Collision Avoidance Evaluation *Python, C++, Cython*

- Developed a Cython wrapper for the official C++ PowerLaw simulation
- Implemented interaction overhead and energy efficiency calculations to evaluate simulations
- Created an efficient pipeline for evaluating different algorithms on various agent configurations

LEADERSHIP AND INVOLVEMENT

Clemson University Graduate Student Government

Senator – Computer Science Department

Clemson, SC

January 2020

College of Business and Information Science Advisory Board

Member – Computer Science Department

Clarion, PA

January 2019 - December 2019

Association of Information Technology Professionals

August 2016 - December 2019

Clarion, PA

President

August 2018 - May 2019

Vice President

August 2017 - May 2018

AWARDS

Clarion University CS Dept. Student of the Month

December 2019

Clarion University Deans List

Fall 2018, Spring 2019

Elizabeth Ross AITP Scholarship

2018, 2019

George Lewis Scholarship

2018, 2019

Joy Scholarship

2016