ALEX DAY

Charleston, SC · adday@clemson.edu · (724) 841 2634 · https://www.alexday.me

EDUCATION

Clemson University Clemson, SC
Ph.D. Computer Science *(GPA: 3.8/4.0)* September 2020 - Present

Clarion University of Pennsylvania Clarion, PA
B.S. Computer Science *(cum laude)* August 2016 - December 2019

SKILLS

Programming Languages:	Python (Proficient), C/C++ (Proficient), POSIX Scripting, C#
Technologies:	Linux (Proficient), Git/GitHub (Proficient), ROS, LaTeX

EXPERIENCE

Clemson University Motion Planning Lab Clemson, SC
Graduate Research Assistant September 2020 - Present
- Analyzing data and running studies related to real world human-robot interation (HRI) data
- Supervising undergraduate researchers, reviewing PRs, and writing HRI ROS frameworks
- Developed deep-learning based high level controllers in PyTorch for human inspired multi-agent navigation with another Graduate Student

Carnegie Robotics LLC Pittsburgh, PA
Software Engineering Intern Summer 2021, 2022 & Winter 2021, 2022
- Prototyped novel methods for validating and calibrating sensors intrinsics, extrinsics, and timestamps
- Developed new drivers and improved diagnostics reporting for a large ROS-based autonomous vehicle platform
- Reviewed and approved PRs related to sensor drivers and calibration tooling
- Designed, trained, and validated LSTM-based steering controllers using large amounts of visual data

JGMS Inc. Grand Rapids, CO
Data Scientist (R&D) 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 relating to computer security

PROJECTS

English to Emoji Translation *Python, NLTK, spaCy*
- Devised novel algorithm for translating sentences into emoji counterparts for information compression
- Created a new sentence splitting algorithm based on part-of-speech and dependency relations
- Published in PACISE 2020 and awarded best undergraduate paper

LEADERSHIP AND INVOLVEMENT

Clemson University Graduate Student Government Clemson, SC
Webmaster May 2021 - May 2023
Senator – Computer Science Department January 2021 - May 2021

Clemson University Intellectual Property Committee Clemson, SC
Graduate School Representative January 2021 - May 2023

Clemson University School of Computing Clemson, SC
Graduate Teaching Assistant August 2020 - May 2022

Association of Information Technology Professionals Clarion, PA
President August 2018 - May 2019
Vice President August 2017 - May 2018

AWARDS

Zucker Graduate Education Center PhD Grant	Spring 2023
PACISE 2020 Best Undergraduate Student Paper	January 2021
Clarion University CS Dept. Student of the Month	December 2019
Clarion University Dean's List	Fall 2018, Spring 2019