Alex Day

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Education

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

Clarion University of Pennsylvania
B.S. Computer Science *(cum laude)*
Clarion, PA
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
Graduate Research Assistant
Clemson, SC
September 2020 - Present

- Analyzing and running studies to gather real world human-robot interations
- Supervising undergraduate researchers and reviewing PRs for additions to large ROS simulation framework
- Developed deep-learning based high level controllers in PyTorch for human inspired multi-agent navigation with another Graduate Student

Carnegie Robotics LLC
Software Engineering Intern
Pittsburgh, PA
Summer 2021, 2022 & Winter 2021

- Created methods for and validated temporal, intrinsic, and extrinsic calibration for novel sensors
- Reviewed and approved PRs for drivers and calibration tooling
- Developed new drivers and improved diagnostics reporting for a large ROS-based autonomous vehicle platform in both Python and C++
- Designed, trained, and validated LSTM-based steering controllers using large amounts of visual data

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 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
Webmaster
Senator – Computer Science Department
Clemson, SC
May 2021 - Present
January 2021 - May 2021

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

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

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

Awards

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