Alex Day

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Education

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

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

Skills

Programming Languages: Python, C/C++, POSIX Scripting, Java, C#
Technologies: Linux, Git, ROS, LaTeX, Tableau, SQL

Experience

Clemson University   Clemson, SC
Graduate Research Assistant   September 2020 - Present

- Something about the studies we are running
- Working with Dr. Ioannis Karamouzas to develop evaluation pipelines for social robot navigation algorithms
- Developed deep-learning based high level controllers for human inspired multi-agent navigation

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

- Created methods for and validated temporal, intrinsic, and extrinsic calibration for various sensors
- Developed new drivers and improved diagnostics reporting for a large ROS-based autonomous vehicle platform
- Designed, trained, and validated LSTM-based steering controllers

Clemson University   Clemson, SC
Lead Graduate Teaching Assistant   September 2020 - May 2022

- Hosted office hours and graded assignments for Systems Analysis and Intro to Software Development
- Developed assignments and hosted labs for new computer science students to focus on OOP

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

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 - Present
Senator – Computer Science Department   January 2021 - May 2021

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

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