

ALEX DAY

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

EDUCATION

Clemson University

Ph.D. Computer Science

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

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

- Worked within a team of 3 to develop a simple way to create autonomous vehicle paths with WebGME for use in a 4th grade curriculum
- Developed a verification server in Flask that performed reachability analysis on a given path
- Prepared and presented research at the UROC conference at the University of Arizona
- Extensively tested the project in both simulation and on the Cognitive and Autonomous Test (CAT) Vehicle

Komatsu Mining Ltd.

Student Engineer

Franklin, PA

May 2018 - August 2018 and December 2018 - January 2019

- Implemented a logging management tool in C# to be used on all Komatsu Mining equipment
- Created data analysis tools in Excel VBA and Python to assist with debugging of all mining machines
- Augmented the Longwall Shearer testbed with a powercycle scheduler built on the Raspberry Pi platform

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
- Accepted for publication in PACISE Journal in 2019 (delayed by COVID)

LEADERSHIP AND INVOLVEMENT

Association of Information Technology Professionals

August 2016 - December 2019

Clarion, PA

President

August 2018 - May 2019

- Ran weekly meetings to update members on activities of the group
- Hosted multiple hour long seminars on topics including version control and robotics

Vice President

August 2017 - May 2018

- Assisted in running weekly meetings to update members on activities of the group
- Hosted multiple hour long seminars on topics including open source and unit testing

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