

ALEX DAY

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EDUCATION

Clemson University Ph.D. in Computer Science	Clemson, SC September 2020
Clarion University of Pennsylvania B.S. in Computer Science, Minor in Chemistry (<i>cum laude</i>)	Clarion, PA September 2016 - December 2019

SKILLS

Programming Languages: Python, Java, C#, C/C++, HTML/JavaScript/CSS
Technologies: Linux, Git, \LaTeX , Tableau, Robot Operating System/Gazebo, SQL

EXPERIENCE

Clemson University <i>Lead Graduate Teaching Assistant</i> <ul style="list-style-type: none">Assist faculty members with instruction using remote learning technologiesLead two lab sections of 30 students to reinforce new software development techniques	Clemson, SC September 2020
JGMS Inc. <i>Data Scientist (R&D)</i> <ul style="list-style-type: none">Designed neural networks for massive document classification and bid prediction with Keras in PythonDeveloped REST API using Flask to expose an endpoint for document summarization and classificationConducted market research to determine market gaps for future projects	Grand Rapids, CO May 2020 - September 2020
University of Arizona <i>CAT Vehicle Research Assistant (REU)</i> <ul style="list-style-type: none">Worked within a team of 3 to develop a simple way to create autonomous vehicle paths with WebGME for use in a 4th grade curriculumDeveloped a verification server in Flask that performed reachability analysis on a given pathPrepared and presented research at the UROC conference at the University of ArizonaExtensively tested the project in both simulation and on the Cognitive and Autonomous Test (CAT) Vehicle	Tucson, AZ May 2019 - August 2019
Komatsu Mining Ltd. <i>Student Engineer</i> <ul style="list-style-type: none">Implemented a logging management tool in C# to be used on all Komatsu Mining equipmentCreated data analysis tools in Excel VBA and Python to assist with debugging of all mining machinesAugmented the Longwall Shearer testbed with a powercycle scheduler built on the Raspberry Pi platform	Franklin, PA May 2018 - August 2018 and December 2018 - January 2019

PROJECTS

English to Emoji Translation <i>Python, spaCy, Sent2Vec</i> <ul style="list-style-type: none">Devised novel algorithm for translating sentences into emoji counterparts for information compressionCreated a new sentence splitting algorithm based on part-of-speech and dependency relationsAccepted for publication in PACISE Journal in 2019 (delayed by COVID)
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LEADERSHIP AND INVOLVEMENT

Association of Information Technology Professionals August 2016 - December 2019	Clarion, PA
<i>President</i> <ul style="list-style-type: none">Ran weekly meetings to update members on activities of the groupHosted multiple hour long seminars on topics including version control and robotics	August 2018 - May 2019
<i>Vice President</i> <ul style="list-style-type: none">Assisted in running weekly meetings to update members on activities of the groupHosted multiple hour long seminars on topics including version control and unit testing	August 2017 - May 2018

AWARDS

Clarion University CS Dept. Student of the Month	December 2019
Clarion University Dean's List	Fall 2018, Spring 2019
Elizabeth Ross AITP Scholarship	2018, 2019
George Lewis Scholarship	2018, 2019
Joy Scholarship	2016