Drew Emery

andrewbemery@gmail.com | 803-761-1296

EDUCATION

Clemson University
Industrial Engineering, B.S.,
Computation Emphasis
Graduation: May 2021

SKILLS

Certifications
AWS Cloud Practitioner - Associate

Languages and Skills
Python • C/C++ • Javascript
R • Linux/Bash • Git
VBA • Network Design

AWS Competencies
DynamoDB • EC2 • Lambda
CloudWatch • S3 • Lightsail
Route53 • API Gateway • IAM

Data Science + ML
SciPy • Keras • NumPy
Tensorflow • Matplotlib

Miscellaneous
Flask • NoSQL
Object-Oriented Design
MVC • RESTful APIs
Multi-threading

LINKS

Github:// **ethinallen**
LinkedIn:// **andrewbartlettemery**

PROFESSIONAL EXPERIENCE

Associate Cloud Consultant Intern
Amazon Web Services   May 2020 - August 2020 | Herndon, VA
- Learned how to communicate value proposition and TCO to clients
- Worked backwards from customer needs to develop and present a solution to internal customers
- Collaborated with a team of interns to produce a web application that helps businesses migrate to the cloud
- Built a demo for automated cloud migrations using AWS

Data Science Intern
Clemson Energy Visual Analytics   May 2019 - April 2020 | Clemson, SC
- Developed python machine learning algorithm to predict utility consumption of buildings on campus
- Created data pipelines to fetch and push information to train the utility prediction algorithm

Quality Engineering Intern
Bosch Rexroth   January 2019 - June 2019 | Fountain Inn, SC
- Integrated 3D scanner onto the factory floor to detect low-tech failures on manufactured parts
- Authored code to pull excel data and examine part failure frequency of the facility

INVOLVEMENT

CUhackit
Tech Team Leader   January 2019 - Present | Clemson, SC
- Identify all technical requirements of the CUhackit hackathon and plan solutions to satisfy all needs
- Delegated tasks and handled project management for team of 3 students to meet functionality goals before event
- Wrote and managed a repository of code to manage the participant information for the event

AWARDS AND HONORS

MLH Top 50 Hacker of 2020

I was named one of Major League Hacking's (MLH) Top 50 Hackers in 2020. Out of the 100,000 students who participated in hackathons, my story was one of 50 that was recognized on this list due to my impact on other students in the community.

PROJECTS

EngineeringToCS | A Computer Science introduction for Industrial Engineers

- Wrote tutorial for peers in IE computing class to teach basics of Python and fundamental programming concepts
- Repository of helpful resources that I used to learn more about the field of computing
- Aimed at equipping engineers with enough base knowledge to integrate with any team and begin learning more specialized practices

When2Lift | A program to predict rec center occupancy

- Reverse engineered the Fike Recreation Center occupancy API to harvest occupancy data
- Defined schema and pushed all data in a DynamoDB instance
- Implementing Keras sequential model to predict the occupancy of the building using LSTM machine learning

RoadTripper | Planning the perfect road trip

- Interfaced with the Google Maps API to accumulate list of location objects for major cities around the United States
- Applied linear programming in Python to address the traveling salesman problem in visiting a random assortment of cities as efficiently as possible