RYAN GESS

THINKER | PROBLEM SOLVER | LEADER

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA | May 2022

B.S. Electrical and Computer Engineering Minor in Machine Learning

PROJECTS

Stock Sentiment

Carnegie Mellon University | Fall 2018

Built an app using Python and BeautifulSoup to scrape news articles and analyze public sentiment about companies to gain insight for stock price projections.

ACTIVITIES

CMU Sports Analytics Club

Pittsburgh, PA | Fall 2018 - Present

Analyze player values and predict game outcomes using R.

Hack 112

Pittsburgh, PA | Fall 2018

Built interactive game to teach sign language using Python and OpenCV during 24-hour hack-a-thon.

LEADERSHIP

Carnegie Mellon Booth, Project Manager

Pittsburgh, PA | Spring 2019

Coordinated a team of fifteen people to create an immersive experience in a room to bring a scene of the Disney movie Coco to life. Delegate tasks for set design and music production.

Hack Club, Co-founder

State College Area High School | 2017-2018

Organized and lead weekly meetings to teach coding workshops. Presented demos to inspire and teach new programmers and experienced coders.

EXPERIENCE

R & D Engineering and Machine Learning Intern – ARL Penn State

Penn State | Summer 2019

- Engineered a big data pipeline to enable analytics on over 24 million aircraft positions per day.
- Conducted machine learning research to predict relevant features of aircraft and maintain state of aircraft (on ground, in air, etc.)
- Implemented algorithms to flag and clean anomalous data.
- Created geospatial visuals using D3.js to inform analysis and methods such as random forest regression and density-based clustering.

Software Engineering Intern - ARL Penn State

Penn State | Summer 2018

- Designed and implemented a Python script to setup a development environment for new interns.
- Tested a customizable interactive geospatial visual display web app with Selenium web browser automation and fixed bugs that were discovered.

Software Engineering Intern – Minitab Inc.

State College, PA | Summer 2017

- Worked with a team to create and test Mac wrapper functions written in Swift that wrap functions in the C++ Minitab Windows version.
- Wrote unit test classes in Swift for Minitab Express Mac software.

SKILLS

Languages

Python – Java – Swift – C/C++ JavaScript/HTML5/CSS SQL – HiveQL – PySpark

Software

Folium – D3.js – BeautifulSoup Hadoop File System Junit – Selenium Grid – iOS & macOS testing

Development Environments/Source Control

Xcode – Eclipse – Microsoft Visual Studio Code PyCharm – Git – Ant – VirtualBox Scrum/Agile Project Management