

RYAN GESS

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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

Fall 2018

Built an app using Python and BeautifulSoup to scrape news articles and analyze sentiment about stocks relation to stock prices.

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

Participated in 24 hour hack-a-thon. Built an app to teach kids sign language using OpenCV.

1000+ Hours

Pittsburgh, PA | Spring 2019

Volunteered to weed and plant an urban garden in low-income community.

Carnegie Mellon Club Baseball Team

2018 – Present

LEADERSHIP

Hack Club, Co-founded

State College Area High School | 2017-2018

At weekly meetings members help each other complete coding workshops. Presented demos to inspire and teach new programmers.

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 visualizations using D3.js to inform analysis and methods.

Software Engineering Intern – ARL Penn State

Penn State | Summer 2018

- Write and document a 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 test classes in Swift for Minitab Express Mac software.

SKILLS

Languages

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

Packages

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

Development Environment/Source Control

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

Other Skills

Certified Red Cross Lifeguard