

Andrew Morgan

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I am a motivated, passionate software developer, data scientist, and economist. My philosophy is to keep learning new skills and refining existing skills as modern business demands rapidly evolve. I have been unable to work since the beginning of the Covid-19 pandemic because of caretaking responsibilities for my disabled mother (Multiple Sclerosis).

EDUCATION

Bachelor of Science: Economics-Statistics and Computer Science

University of Pittsburgh

December 2019

- GPA of 3.6/4.0

- *Magna Cum Laude*

WORK EXPERIENCE

Front End Developer and Project Liaison

Contractor for The Process Consultant, Pittsburgh, PA

05/2019 – 08/2019

- Automated process for migrating client's data to new application.
- Facilitated communication between senior management and the technical team.
- Delivered recommendations on technologies to be integrated within application.
- Enhanced user-interface allowing clients and users to easily upload and navigate content.

Front End Developer, Intern

Imagine Careers, Pittsburgh, PA

05/2017 – 08/2017

- Created dashboard view for clients to manage company policy settings.
- Increased user retention by adding intuitive prompts for search and filtering.

SKILLS

Programming Languages: Python, Java, JavaScript (jQuery), HTML, CSS, R, MATLAB, SQL, Cypher (Graph Database)

Data Science Skills: Machine Learning, Data Visualizations, Neural Networks (CNN, RNN), Agent-Based Modeling

Other Skills and Tools: Git, Linux, Unix, Unit Testing, Windows, Virtual Machines (Hyper-V), Software Design Lifecycle (Waterfall, Agile, TDD), Excel, Word, Minitab, Stata, JSON, CSV, Algorithms, Data Structures, Data Analysis

PROJECTS and DATA ANALYSES

CraigVersity Application

09/2019 – 12/2019 (Completed Project)

Integrated into my personal website at:

<https://andrew-morgan-website.herokuapp.com/craigversity>

- Led 4 other classmates in software engineering project as lead programmer.
- Deployed prototype of an application like Craigslist, bringing sellers and buyers together.
- Developed with **Python (Flask)**, **SQL (SQLite3, PostgreSQL)**, **JavaScript**, HTML, and CSS.

Data Analysis of the Human Freedom Index

01/2019 – 04/2019 (Completed Project)

Analysis can be found on my website:

<https://andrew-morgan-website.herokuapp.com/my-posts/posts/3>

- Analyzed a large, high dimensional dataset measuring human freedom with a team of 5 classmates using **R**.
- Identified most significant variables affecting the country's human freedom with **statistical/machine learning**.

Agent-Based Modeling

07/2021 – Present (Current Project)

Found on my website at:

<https://andrew-morgan-website.herokuapp.com/abm>

- Creating agent-based models using principles of artificial intelligence to capture emergent patterns.
- Implementing two initial models: the Forest Fire model and Schelling Segregation model.
- Developing with **Python**, **JavaScript**, HTML, CSS for logic and model visualization.