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.