

# Andrew Morgan

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GitHub: <https://github.com/amm414/>

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

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I am a motivated, creative software developer, data scientist, and economist. My philosophy is to keep learning new skills and refining existing skills as modern business demands rapidly change. 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

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### Bachelor of Science: Economics-Statistics and Computer Science

University of Pittsburgh

December 2019

- **GPA of 3.6/4.0**
- ***Magna Cum Laude***
- Coursework: Software Engineering, Database Management, Statistical/Machine Learning, Quality Assurance

## WORK EXPERIENCE

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### Front End Developer and Project Liaison

The Process Consultant, Pittsburgh, PA

05/2019 – 08/2019

- Automated the migration of content to new application to attract clients.
- Facilitated communication and planning between senior management and the technical team.
- Enhanced user-interface to allow clients and users to easily upload and navigate content.
- Researched additional technologies for integration within application.

### Front End Developer, Intern

Imagine Careers, Pittsburgh, PA

05/2017 – 08/2017

- Created modern-styled dashboard interface allowing clients to customize their accounts.
- Collaborated with team to improve search and filtering system to increase user retention.

## SKILLS

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**Programming Languages:** Python, Java, JavaScript, AJAX, HTML, CSS, C, Ruby, R, MATLAB, SQL, Cypher (Graph Database)

**Data Science Skills:** Machine Learning, Statistical Learning, Data Analysis, Data Visualizations, Neural Networks (CNN, RNN), Agent-Based Modeling, Time Series Analysis, Bootstrapping, SVM, Random Forest, Dimension Reduction

**Other Skills and Tools:** Git, Automated Testing, Unit Testing, Minitab, Stata, AJAX (jQuery), JSON, Unix, Linux, Windows, Virtual Machines (Hyper-V), SDLC (Waterfall, Agile, TDD), Excel, Word, Algorithms, Data Structures, Data Analysis

## PROJECTS and DATA ANALYSES

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### 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.

### 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**.

### Website Metadata Tracker Application

01/2021 – Present (Maintaining Project)

Can be viewed on my website:

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

- Designed application to track website's metadata, bug reports, feature requests, and content updates.
- Integrated bug reporting system into Navbar for easy bug documentation throughout site.
- Maintaining application and correcting bugs found, while designing potential future functionality.
- Developed with **Python (Flask)**, **SQL (PostgreSQL)**, **JavaScript**, HTML, and CSS.