Andrew Morgan

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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

**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

**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

**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

**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.