**Andrew Morgan**

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**U.S. Citizen; Pittsburgh, PA**, 15232 Personal Portfolio: [https://andrew-morgan-website.herokuapp.com](https://andrew-morgan-website.herokuapp.com/)

Since the start of the Covid-19 pandemic, I have been unable to work because of caretaking for my disabled mother (Multiple Sclerosis). I have continued refining my skills through my website and portfolio (linked above).

EDUCATION

Bachelor of Science in **Computer Science** and **Economics-Statistics**

University of Pittsburgh December 2019

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

EXPERIENCE

**Software Developer**

Management Science Associates Inc., Pittsburgh, PA 10/2021 ­– Present

* Developing a big data tool for Fortune 500 companies using **C#, PL/SQL, JavaScript (Angular).**
* Improving and updating the legacy internal admin tool for managing users across sites.

**Software Developer** and **Project Liaison**

Contractor for The Process Consultant, Pittsburgh, PA 05/2019­ ­– 08/2019

* Developed CMS web app managing process documentation using **JavaScript, HTML/CSS, Ruby on Rails**.
* Automated process for migrating client’s data to new application using **Python**.
* Facilitated communication between senior management and the technical team.
* Delivered recommendations on technologies to be integrated within application.

**Software Developer**, Intern

Imagine Careers, Pittsburgh, PA 05/2017 – 08/2017

* Developed web application like Glassdoor using **JavaScript (Angular v4), HTML/CSS, Git**.
* Created a dashboard view allowing users to modify account policies.

SKILLS

**Programming Languages**: Python, Java, JavaScript (jQuery, AJAX), Ruby, HTML/CSS, R, MATLAB, SQL

**Data Science Skills**: Statistical/Machine Learning, Data Visualization, Statistical Inferencing, Agent-Based Modeling

**Other Skills and Tools**: Git, Linux, Unix, Windows, Unit Testing, Software Design Lifecycle (Agile, Waterfall), Excel, Word, PowerPoint, JSON, REST API, Algorithms, Data Structures, Object-Oriented Programming (OOP)

PROJECTS

**CraigVersity Application** Sept 2019 – Dec 2019 (Completed Project)

Found on my website at: <https://andrew-morgan-website.herokuapp.com/craigversity>

* Led 4 classmates in course project as lead programmer using **Python (Flask), SQL, JavaScript, HTML/CSS**.
* Deployed prototype of application like Craigslist, a place for bringing sellers and buyers together.
* Documented project following the waterfall software design lifecycle (SDLC).

**Personal Portfolio and Website** March 2021 – Present (Current Project)

Found on my website at: <https://andrew-morgan-website.herokuapp.com/>

* Developing website for personal projects using **Python (Flask), PostgreSQL, JavaScript, HTML/CSS, Git, Heroku.**
* Implementing [Agent-Based Models (ABM)](https://andrew-morgan-website.herokuapp.com/abm) highlighting emergent patterns from autonomous agent actions.
* Analyze the [Human Freedom Index](https://andrew-morgan-website.herokuapp.com/my-posts/posts/3) (By Cato Institute) with various machine learning and statistical techniques.
* Optimized a [Sudoku Solver](https://andrew-morgan-website.herokuapp.com/programming-repo/sudoku-solver) for N-by-N sudoku puzzles with intelligent search algorithms.
* Integrated [Website Metadata Tracker App](https://andrew-morgan-website.herokuapp.com/website-tracker/dashboard) to track bugs, feature requests, user data, and content updates.