Andrew Morgan

Email: andrew.morgan11z@gmail.com   GitHub: https://github.com/amm414
Phone Number: 412-651-8221   LinkedIn: https://www.linkedin.com/in/andrew-morgan-cs-econ-stat
U.S. Citizen; Pittsburgh, PA, 15232   Personal Portfolio: 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) highlighting emergent patterns from autonomous agent actions.
- Analyze the Human Freedom Index (By Cato Institute) with various machine learning and statistical techniques.
- Optimized a Sudoku Solver for N-by-N sudoku puzzles with intelligent search algorithms.
- Integrated Website Metadata Tracker App to track bugs, feature requests, user data, and content updates.