

# Andrew Morgan

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U.S. Citizen

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

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Pittsburgh, PA 15232

I am a creative, detail-oriented, motivated data scientist and software developer. I have been unable to work since 2019 because I have been caretaking for my disabled mother (Multiple Sclerosis) since the Covid-19 pandemic began.

## EDUCATION

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

University of Pittsburgh

December 2019

- **Overall GPA of 3.6/4.0**
- *Magna Cum Laude*
- Dean's List 7/9 semesters
- Coursework: Software Engineering, Database Management, Statistical Learning, Artificial Intelligence
- Economics-Statistics **GPA of 3.7/4.0**
- Computer Science **GPA of 3.6/4.0**

## WORK EXPERIENCE

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### Frontend Developer and Project Liaison, The Process Consultant, Pittsburgh, PA

05/2019 – 08/2019

- Migrated demo site content to new content management system to attract new clients.
- Enhanced user-interface to allow clients and users to easily upload and navigate content.
- Ensured management and technical teams have aligned goals and mutual understanding.

### Frontend Developer Intern, Imagine Careers, Pittsburgh, PA

05/2017 – 08/2017

- Created modern-styled dashboard interface allowing clients to tailor their accounts.
- Collaborated with team to improve search and filtering system to increase user base.
- Increased user retention by adding search and filtering prompt within results.

### Barista, Crazy Mocha, Pittsburgh, PA

08/2016 – 10/2018

## SKILLS

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**Programming Languages:** Python, Java, JavaScript, Ruby, C, R, MATLAB, HTML5, CSS

**Frameworks, Libraries, Databases:** Flask, Anaconda (Scikit-Learn, NumPy), PostgreSQL, Oracle DB, Angular, jQuery

**Tools:** Git, Agile methodologies (SDLC), Heroku, Unix/Linux systems, Virtual Machines (Hyper-V), Excel, PowerPoint

**Data Analysis Skills:** Linear Regression, Bootstrapping (cross-validation), Model Selection, Bias-Variance Tradeoff, Ensemble Methods, SVMs, CNNs, Agent-Based Modeling, Time Series Analysis, Dimension Reduction Methods

## PROJECTS and DATA ANALYSES

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### Website Tracker Application

Can be viewed on my website:

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

- Application manages website's content metadata, update notifications, bug reports, and wish lists.
- Bug reporting tool found through website's Navbar for easy documentation of bugs.
- User authentication system to allow easy modification of reports and wishes.
- Built with **Python (Flask), PostgreSQL, JavaScript, HTML, and CSS.**

### CraigVersity Application

Integrated into my website:

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

- Application designed like Craigslist where sellers and buyers can meet.
- Programming lead among group of 4 other classmates to develop prototype of our application.
- Built using **Flask, SQLite3/PostgreSQL, SQL-Alchemy, JavaScript, HTML, CSS, Bootstrap.**

### Data Analysis of Human Freedom Index

Can be viewed on my website:

<https://andrew-morgan-website.herokuapp.com/my-posts/posts/3>

- Data Analysis of the Cato's Human Freedom Index (HFI) performed as team of 5 classmates utilizing **R**.
- Objective was to use **statistical learning methods** to discover the most relevant variables/predictors.