

# Andrew Morgan

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## WORK EXPERIENCE

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### Software Developer

October 2021 – Present

Management Science Associates, Inc.

Pittsburgh, PA

- Developing in a 5-person team on a big-data web application used by Fortune 500 companies.
- Delivered automated report scheduling for users when data is updated (weekly or monthly).
- Automated internal admin and DevOps processes with **C# .NET Framework** and **PL/SQL**.
- Collaborating across teams to migrate legacy system into current web service using **C#, PL/SQL, Angular**.

### Software Developer

May 2019 – August 2019

Self-Employed; Contracted by The Process Consultant (Ian James)

Pittsburgh, PA

- Enhanced UI of web application managing process documentation using **JavaScript (jQuery)**, **HTML**, **CSS**.
- Automated process for migrating client's data from prior application to new application using **Python**.
- Facilitated communication between senior management and the technical team.

### Software Developer, Intern

May 2017 – August 2017

Imagine Careers

Pittsburgh, PA

- Developed web application like Glassdoor within team of 5-developer team using **JavaScript**, **HTML**, **CSS**.
- Implemented mockup dashboard views for users to modify account policy settings intuitively.

## SKILLS

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**Programming/Database Languages:** Python, C# (.NET), SQL (PL/SQL, Postgres), Java, R

**Web-Based Skills:** JavaScript, Angular 4, AJAX, jQuery, HTML, CSS, RESTful API, JSON

**Data Science Skills:** Machine Learning, Neural Networks, Agent-Based Modeling, Time Series Analysis

**Other Skills and Tools:** Git, TFS, JIRA, Automated Testing, Unit Testing, Unix, Linux, Windows, Virtual Machines (Hyper-V), SDLC (Waterfall, Agile), Excel, Word, Markdown, Algorithms and Data Structures

## EDUCATION

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### University of Pittsburgh

September 2015 – December 2019

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

- **Overall GPA: 3.6/4.0**
- ***Magna Cum Laude***
- Computer Science GPA: 3.6/ 4.0
- Dean's List 7/9 Semesters

## PERSONAL WEBSITE DETAILS

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### My Personal Website

June 2020 – Present (Ongoing Project)

Found at:

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

- Continuous development on my personal portfolio website and the projects within to learn and improve my skills using **Python (Flask)**, **PostgreSQL**, **JavaScript (jQuery)**, **HTML**, **CSS**, **Bootstrap**, **Git**, **Heroku**.
- Implementing [Agent-Based Models \(ABM\)](#) highlighting emergent patterns from autonomous actions.
- Migrating from Flask to **Django** and improving, refactoring components like user login.
- Led 5-classmate team as lead programmer to deploy prototype of [CraigVersity](#), like Craigslist at school-level using Python (Flask), JavaScript, Bootstrap, CSS, HTML (Sept 2019 – Dec 2019).
- Integrated [Website Metadata Tracker App](#) to track bugs, content, user requests, and website updates.
- Optimized a [Sudoku Solver](#) for N-by-N sudoku puzzles using intelligent search algorithms.