

MATTHEW FALZON

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EDUCATION

University of Maryland

B.S. Computer Science, Data Science Concentration, *GPA: 3.71*

College Park, MD
Aug 2018 - May 2022

- Innovation and Entrepreneurship Minor
- Alpha Lambda Delta Honor Society

Relevant Coursework

Object-Oriented Programming · Computer Systems · Programming Language Technologies and Paradigms · Algorithms · Data Science · Advanced Data Structures · Computer & Network Security

WORK EXPERIENCE

UMD Federal and Global Fellows

Full Stack Developer

College Park, MD
Feb 2020 - Present

- Responsible for developing the program's student portal and administrative tools including managing a MySQL based relational database
- Redesigned the entire front-end for the student portal and admin portal in React.js
- Used PHP to create an API which connects 250 users and 8 administrators with their respective portals, and provides them with the tools they need to partake in the program

SPS Consluting

Full Stack Developer

Remote
June 2020 - Aug 2020

- Developed the Blink Resume Progressive Web App (PWA) to create individualized video resumes
- Designed UI and UX then implemented the interface with React.js which connects to a web API using Node.js and communicates with Google Firebase
- Lead a team of three using GitHub for version control

New Providence High School

Animation Instructor

New Providence, NJ
June 2019 - Aug 2019

- Created a curriculum for the class, "Introduction to 3D Animation"
- Taught a 30 student class how to use Blender for modeling, rigging, animation, rendering, compositing and video editing

SKILLS

| | |
|------------------------|--|
| Programming Languages: | Java, Python, C/C++, Javascript, HTML/CSS, PHP, SQL, OCaml |
| Web Development: | React.js, Node.js, Bootstrap, Google Firebase |
| Data Science: | Numpy, Pandas, Matplotlib, Scikit-learn, Seaborn, Natural Language Toolkit |

PROJECTS

Personal Website *React.js*

<https://mgfalzon.github.io/portfolio>

My JSON based portfolio website which showcases all my projects.

Pokémon Machine Learning Tutorial *Python*

<https://mgfalzon.github.io/pokemon-ml>

A Jupyter Notebook which explores the relationship between pokémon characteristics and win percentage.

The notebook predicts pokémon battles with up to 88% accuracy using various machine learning models.

ORGANIZATIONS

International Economics and Finance Society

VP, VP of Content, Content Committee

- Responsible for overseeing all 5 committees, directing the content and events committees, implementing new initiatives and advising the president
- Led a team that gave weekly presentations on current events and topics in economics and finance
- Researched and presented topics including derivatives, gold, venture capital and private equity, tokenizing financial assets among many others

Calisthenics Club

Trainer / Member

Phi Kappa Psi Fraternity

Professional Development Chair, Sexual Assault Prevention Liaison