Matthew Falzon

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Education

University of Maryland College Park, MD
B.S. Computer Science, Data Science Concentration, *GPA: 3.71* 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 College Park, MD
Full Stack Developer 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 Remote
Full Stack Developer 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 New Providence, NJ
Animation Instructor 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