

# Matthew Falzon

## Software Developer

UMD Computer Science Student looking for opportunities in software development

mattgfalzon@gmail.com

(908) 574-8552

Basking Ridge, NJ

mgfalzon.github.io/portfolio

## EDUCATION

### Bachelor of Science, Computer Science

University of Maryland

2018 - 2022

GPA: 3.71

- Innovation and Entrepreneurship Minor
- Alpha Lambda Delta Honor Society

### High School Diploma

Ridge High School

2014 - 2018

GPA: 3.92

- National Honor Society
- Honor Roll
- Varsity Soccer Coach's Award
- Bronze Community Service Award (100 Hours)

## MAJOR COURSES

### Object Oriented Programming I & II

- Designed, built, tested, and debugged medium-sized software systems in Java
- Used object-oriented methods to create effective and efficient problem solutions
- Studied and implemented various data structures including Arrays, Linked Lists, Hash Maps, Trees and BSTs, and Graphs

### Advanced Data Analysis with Python

- Used various python libraries including NumPy, Matplotlib, and Pandas to efficiently process numerical, categorical, and text data
- Implemented several programs capable of converting financial indices from various formats into numerical datasets with graphical visualizations
- Performed sentiment analysis on novels, movie scripts, etc. with python's Natural Language Toolkit

### Computer Systems

- Studied the interaction between user programs and operating systems/hardware in order to create C programs that effectively use available hardware resources
- Implemented programs that utilize C pointers, dynamic memory management in the heap, and fork/exec system calls

### Additional Courses

- Calculus I & II
- Discrete Structures
- Linear Algebra

## INTERESTS



Reading



Finance



Soccer



Calisthenics



Ricing Linux

## WORK EXPERIENCE

### Full Stack Developer

UMD Federal and Global Fellows Programs

Spring 2020 - Present

- Development of the student portal and administrative tools including management of a MySQL based 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

Contact: Jay Arasan - (301) 314-1130

### Full Stack Developer

SPS Consulting

Summer 2020

- Development of the Blink Resume Progressive Web App (PWA) to quickly create more personalized resume applications
- Designed UI and UX then implemented 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

Contact: Toby Studley - tsudley00@gmail.com

### Animation Instructor

New Providence High School

Summer 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

Contact: Denise Moser - (908) 358-8989

## 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

- Responsible for leading weekly workouts based on body weight training exercises
- Implemented a new workout schedule and recruited 10 new members

### Phi Kappa Psi Fraternity

Professional Development Chair, Sexual Assault Prevention Liaison