

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

- 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

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 1,200 users and 30 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 and created a web API using Node.js that 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 6 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

Vice President

- 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 Chair