

# Matthew Wong

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## Education

University of Maryland,  
College Park

*B.S. Computer Science and  
Applied Mathematics, May 2020*

- **Cumulative GPA: 3.83**

## Skills/Languages

### Proficient:

- Java
- Python
- C
- SQL

### Familiar:

- C++
- Rust
- HTML
- Ocaml
- CSS
- Ruby
- JS

## Technologies

- Bash Shell
- Git
- Selenium Testing Framework
- Pandas/BeautifulSoup
- JDBC API
- React.js
- NumPy

## Accomplishments

- Dean's List (All Semesters)
- Received 1<sup>st</sup> Place Prize at UMD's iSchool Hackathon with Water Contamination Project

## Activities

- Intervarsity Christian Fellowship Leader
- Violinist in UMD Quartet
- UMD Green Terps
- Primannum Honor Society

## Work Experience

### Teaching Assistant for Computer Architecture and Data Structures (CMSC411/420)

*January 2019-Present*

- Graded projects, tests, held office hours, and assisted students with MeeshQuest Project and programming topics in PR-Quadrees/PM-Quadrees, Skiplists, B-trees, Treaps, Pipelining, MIPS Assembly etc.

### M&T Bank Software Engineer Intern

*June 2019-August 2019*

- Wrote data-driven automated test scripts/business components using XPath query language, Selenium, and TestNG frameworks with Java language for the bank's money transfer system (software similar to Zelle)
- Wrote Database Verification scripts/business components using JDBC API and SQL
- Learned more about regression testing and design patterns

### Teaching Assistant for Organization of Programming Languages (CMSC 330)

*August 2018-December 2018*

- Graded tests, held office hours, and assisted students with programming topics in Ruby, Ocaml, Rust, DFAs and NFAs, and Web Security

### Teaching Fellow for Introduction to Flight Systems (ENAE 380)

*August 2017-December 2017*

- Graded projects and taught labs in C++ programming language to Aerospace Engineers
- Led programming discussions dealing with CPU timing, Endian Swapping, UDP, Pipes, Orbital Elements, Rotation Matrices, Two Line Elements, and Accelerometers

## Projects

### GoalKeeper (CMSC435 Final Project)

*Fall 2019*

- Created a web application to keep track of goals and a social media platform using Python, Flask, SQLAlchemy, and Docker
- Incorporated CI/CD pipeline with the project using gitlab runners

### MeeshQuest (CMSC420 Data Structures Project)

*Fall 2018*

- Created low level MapQuest in CMSC420 using Java and advanced data structures (i.e. PR Quadrees, PM Quadrees, AVL-Trees, TreeMaps); Implemented different versions of Dijkstra and Prim's algorithms on the map and functions to find nearest city/road
- Learned more about Object Oriented Programming and Design
- Earned 650/600 points on the project

### Personal Website (mattwong77.info)

*Summer 2017-Present*

- Programmed my entire website from ground up, having no prior experience in web development
- Used HTML, CSS, JavaScript, jQuery, React, Bootstrap