

Matthew Wong

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Education

University of Maryland,
College Park

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

- **Cumulative GPA: 3.82**

Skills/Languages

Proficient:

- Java
- C
- Ruby
- SQL

Familiar:

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

Technologies

- Bash Shell
- Git
- MIPS64 CPU Assembly
- Selenium Testing Framework
- TestNG Testing Framework
- JDBC API
- React
- Bootstrap

Accomplishments

- Dean's List (All Semesters)
- Received 1st 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

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 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.

Teaching Assistant for Organization of Programming Languages (CMSC 330)

August 2018-December 2018

- Graded projects, 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

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 (one of the highest in class)

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

Water Contamination in Maryland Data Visualizer

Fall 2016

- Given a set of water contamination data in Maryland, I worked in a team of 4 to visualize the data on a website using HTML, CSS, JavaScript, Node.js, JSON, Angular