

Matthew Wong

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Education

University of Maryland,
College Park
*B.S. Computer Science and
Mathematics, May 2020*

- **Cumulative GPA: 3.93**

Proficient Languages

Expert:

- Java
- C
- Ruby
- Ocaml

Intermediate:

- C++
- HTML
- CSS
- JS
- Rust
- SQL
- PHP

Additional Skills

- Bash Shell
- Git
- MIPS CPU Assembly
- Microsoft Office
- Intermediate Understanding of computer hardware

Accomplishments

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

Activities

- Intersarsity 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 programming topics in 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, HashMap)
- Learned more about Object Oriented Programming
- Earned 650/600 points on the project

Personal Website (mattwong77.info)

Summer 2017

- Programmed my entire website from ground up, having no prior experience in web development
- Self-taught HTML, CSS, JavaScript, and jQuery

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

Two Player Betting game on MIT Scratch

Fall 2015

- First project built while learning programming in high school; supposed to mimic www.bustabit.com/play