Mohammad Haider

434-270-5977   haidmoham@gmail.com   haidmoham

Education

Virginia Tech

B.S. Computational Modeling

Minor in **Computer Science**

Expected Graduation Dec 2019

Languages

Java

Python

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MatLAB & Octave

C++

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C#

HTML/CSS

LaTeX

Coursework

Data Structures and Algorithms

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Combinatorics & Graph Theory

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Combinatorics and Graph Theory

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Introduction to Proofs

Competitive Programming

Interests

Professional Experience

Software Engineering Intern **Microsoft Corporation; May '17 - Aug '17**

- Helping to refactor the Recent Documents feature on OneDrive for the sake of readability and performance optimization (using C#).

Lead Programmer **WMHS Robotics Team; Sept '14 - Apr '15**

- Head of the software development portion of our local FIRST Robotics Team. Responsibilities include overseeing all programming, assistance in debugging, etc.

Projects

CodeForces **Solutions to problems hosted on http://codeforces.com/**

- Aided my understanding the usage of various data structures and algorithms
- Written primarily in Java, updated regularly as new

Professional Experience

Software Engineering Intern **Microsoft Corporation; May '17 - Aug '17**

- Migrating the recently used feature in OneDrive to a new architecture in order to increase performance (using C#);

Lead Programmer **WMHS Robotics Team; Sept '14 - Apr '15**

- Head of the software development portion of our local FIRST Robotics Team. Responsibilities include overseeing all programming, assistance in debugging, etc.

Projects

CodeForces **Solutions to problems hosted on http://codeforces.com/**

- Aided my understanding the usage of various data structures and algorithms
- Written primarily in Java, updated regularly as new problems are solved

Java Implementations **Implementations of various algorithms and data structures**

- KMP, Quicksort, Mergesort, Tries, AVLTrees, just to name a few
- Updated as new algorithms and data structures are learned and implemented

PCS **Solutions to problems hosted on https://pcs.spruett.me/**

- Mainly for the purpose of ACM-ICPC preparation

ACM Practice **Solutions to Problems hosted on https://open.kattis.com/**

- Regularly updated as more problems are solved
- Includes problems from weekend practices (which deal with concepts ranging from Union-Find to Max Flow)

Skills

Languages and Technologies

AI and Machine Learning

Algorithms and Data Structures

Competitive Programming

Music and Visualization

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problems are solved

Implementations **Java**

implementations of algorithms and data structures

- KMP, Quicksort, Mergesort, Tries, AVLTrees, just to name a few
- Updated as new algorithms and data structures are learned and implemented

PCS **Solutions to problems hosted on https://pcs.spruett.me/**

- Mainly for the purpose of ACM-ICPC preparation
- Ranging across many algorithmic and mathematical concepts

ACM Practice

Solutions to Problems hosted on https://open.kattis.com/

- Regularly updated as more problems are solved
- Includes problems from weekend practices (which deal with concepts ranging from Union-Find to Max Flow)

Skills

Languages and Technologies

- **Experienced With** Algorithms & Data Structures \ Competitive Programming \

- **Experienced With** Algorithms \ Data Structures \ Competitive Programming \ Terminal \ Git \ LaTeX
- **Operating Systems** Linux (Ubuntu \ Arch \ Debian) \ Mac OS \ Windows
- **Front End Web Design** I've worked on the front end of various websites, including a personal website, and recently, a VT Crew website

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Volunteer Experience

Tutoring **William Monroe High School; Sept '11 - May ' 15**

- Tutoring at all levels in math, science, and computer-related subjects.

Terminal \ Git \
LaTeX
- **Operating
Systems** Linux
(Ubuntu \ Arch \
Debian) \ macOS
\ Windows

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Web Development