

MohammadHaider

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Education

Virginia Tech

B.S. Statistics

Minor in Computer Science

Expected Graduation
Dec 2019

Languages

C#

Java

Python

Interests

Scalability of Services

System Efficiency and Optimization

Music and Visualization

Competitive Programming

Data Structures and Algorithms

Coursework

Data Structures and Algorithms

Combinatorics & Graph Theory

Introduction to Proofs

Competitive Programming

Computer Architecture

Professional Experience

Software Engineering Intern **Microsoft Corporation; May '18 - Aug '18**

- Worked on creating an admin toggle in SharePoint to allow for document chat to be turned off; motivated primarily by complaints of the platform being used for bullying in some academic environments (C#)

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

- Office Product Group - OneDrive eXperiences and Platform, worked on porting the Most Recently Used (MRU) feature to a new architecture, to improve reliability and performance, by creating more robust caching data, as well as reducing query times. (C#)

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

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

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

SpongeBot **A chat bot built for slack**

- Intentionally written as a funny pet project, allowed for me to obtain a better understanding of how information is interpreted in an event stream model, and how to work with that information

PCS **Solutions to problems hosted on <https://pcs.cs.cloud.vt.edu/>**

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