Mohammad Haider

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Education

Virginia Tech

B.S. Statistics

Minor in **Computer Science**

Languages

C#

Java

Python

R

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, learned to work with REST API endpoints, as well as learning more about the underlying flow of information within a large system, particularly one with lots of legacy code; 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, as well as learning to ramp up on a codebase with legacy code, understanding the ins and outs of data exchange and contracts, and learning about how SQL is used to transmit and access data to improve reliability and performance, by creating more robust caching data, as well as reducing query times. (C#)

Projects

BibleBot **A chat bot built for Discord**

- Written as a gag on the request of a friend, morphed into a a pet project which allowed me to learn usage of the discord python api, beautiful soup, requests, and understanding the proper forming of async requests, as well as waiting for their responses.

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

Skills

Languages and Technologies

- **Experienced With** Algorithms & Data Structures \ Competitive Programming \ Terminal \ Git \ LaTeX
- **Operating Systems** Linux (Ubuntu \ Arch \ Debian \ CentOS) \ macOS \ Windows