

MohammadHaider

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Education

Virginia Tech

B.S. Statistics

Minor in **Computer Science**

Expected Graduation
Dec 2020

Languages

C#

Java

Python

R

Interests

Scalability of Services

System Efficiency and Optimization

Music and Visualization

Competitive Programming

Data Structures and Algorithms

Coursework

Experiemental Design

Theoretical Statistics

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

Anilist Python API Wrapper **(In Progress)**

- Working on making a python wrapper for the anilist graphql API, to allow easier querying of anime and manga related data, including ratings, genres, titles, release period, and staff

Python Music Visualizer **(In Progress)**

- Working on using python OpenGL libraries in conjunction with numpy to create real time music visualizations based on input taken from the microphone, by transforming input data into frequencies and influencing the shapes of surfaces created with PyOpenGL.

Discord Community Management

- Created and grew a resource centric discord community for a popular MMORPG. Scaled from no members and no content to roughly 10,000 members and relevant, up to date content with regards to all relevant in-game updates.

Skills

Languages and Technologies

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