

MohammadHaider

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Education

Virginia Tech

Major in **Statistics**

Minor in **Computer Science**

Expected Graduation
Dec 2020

Professional Experience

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

- Motivated by concerns of user privacy within tenants, and concerns of bullying in school use cases
- Developed an admin toggle in SharePoint to allow for document chat to be toggled
- Learned to work with REST endpoints, understanding flow of information, and systems with legacy code
- Used primarily C#

Languages and Technologies

C#

Java

Python

R

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

- Ported the Most Recently Used (MRU) documents feature to a new architecture, improving read/write performance
- Learned to ramp up on code bases with legacy code
- Learned to understand the ins and outs of data exchange and data contracts
- Became more aware of optimizing around reducing SQL queries, to allow for better performance and reliability via caching
- Used primarily C#

Interests

Scalability of Services

System Efficiency and Optimization

Music and Visualization

Competitive Programming

Data Structures and Algorithms

Projects

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

- Developing a python wrapper for the Anilist GraphQL API
- Intended to allow easier querying of anime and manga related data
- Data includes but is not limited to: ratings, genres, titles, release period, and staff

Python Music Visualizer **(In Progress)**

- Using Python OpenGL libraries in conjunction with Numpy to create real time music visualizations
- Focused on taking microphone input and transforming it into frequency data using fourier transforms, then influencing surface shapes with frequency data

Coursework

Data Structures and Algorithms

Competitive Programming

Computer Architecture

Combinatorics & Graph Theory

Introduction to Proofs

Experimental Design

Theoretical Statistics

Discord Community Management

- Created and grew a resource centric discord community for a popular MMORPG.
- Scaled from no members to roughly 10,000 members
- Currently maintaining resources that are relevant and up-to-date with in-game updates

Skills

Technologies

- **Technologies** SourceDepot \ PowerShell \ Terminal \ Git \ LaTeX
- **Operating Systems** Linux (Ubuntu \ Debian \ CentOS) \ macOS \ Windows