

# MohammadHaider

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🌐 haidmoham

## 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**

- **Developed** an admin toggle in SharePoint to allow for document chat to be toggled
- Motivated by concerns of user privacy within tenants, and concerns of bullying in school use cases
- 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

Experiemental 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