

# Mohammad Murad

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## Education

### UNIVERSITY OF VIRGINIA

Computer Science w/ Minor in Data Science, GPA: 3.976

Echols Scholar

Coursework: Data Structures & Algorithms, Discrete Math, Computer Systems & Organization, Software Development Essentials

Charlottesville, VA

Expected: May 2024

## Experience

### UVa Darden School of Business

Charlottesville, VA

#### Research Assistant

August 2022 – Present

- Worked with Dr. Ian Appel on research concerning a variety of topics in Web3.0, including decentralization, blockchain technologies, and token-based economics.
- Utilized Python (web scraping, APIs) and NumPy to collect and process data for further usage and analysis.
- Collected, analyzed, and presented statistical findings to Dr. Ian and several business practitioners, using NumPy and Pandas.

### theCourseForum

Charlottesville, VA

#### Junior Developer

September 2021 – August 2022

- Aided in maintaining front and back end of [www.thecourseforum.com](http://www.thecourseforum.com) using Bootstrap 4, JavaScript, HTML, Python, and Django.
- Engaged PostgreSQL technologies to routinely manage and update large databases.
- Brainstormed and engineered a Question and Answer feature for the website, in frequent collaboration with the Design team.

### UVa Housing & Residence Life

Charlottesville, VA

#### Residential Advisor

August 2022 – Present

- Advise and support upwards of 40 First-year students, including easing adjustment to University life, fostering meaningful connections, and regularly checking in to ensure access to vital information and guidance to succeed at the University.
- Serve as a positive role model by following and implementing the University's Standards of Conduct and Resident Staff expectations.

## Leadership & Activities

### Pakistani Student Association

Charlottesville, VA

#### Secretary

September 2021– Present

- Collaborate with current members to organize and host events for 300 members of PSA at University of Virginia.
- Supervise a variety of administrative responsibility, such as coordinating meetings, conveying weekly tasks, and communicating with general body members.
- Organized and managed a team in executing a "Desi Dance", the first South Asian formal event at UVa ever, with a budget of \$5,000.

## Skills & Interests

**Technical:** Python, Java, JavaFX, JavaScript, HTML, CSS, Django, Bootstrap, SQL, Amazon Web Services, NumPy, Pandas

**Certificates:** Ultimate AWS Certified Solutions Architect Associate (July 2022)

**Awards:** Best Domain Usage (2021): Awarded at HooHacks 2022

## Projects

**Hoo Art Thou** (2022) - Technologies Used: HTML, CSS, JavaScript

- Led a team in the 2022 HooHacks Hackathon in building a website that assessed a user's personality based on art piece preferences.
- Awarded Best Domain Usage.

**Wordle Clone** (2022) - Technologies Used: Java, Gradle, JUnit, Maven

- Designed and implemented a fully working Wordle Clone.
- Utilized Test Driven Development to develop the project, while also collaborated with a team of developers.
- Developing a JavaFX GUI for the code, to allow better usability for clients.

**Jom and Terry** (2021) - Technologies Used: Python, Pygame

- Designed and built a game where a user controls a mouse and collects cheese while evading an increasingly fast cat.

**Blackjack Simulator** (2022) - Technologies Used: Java

- Built a blackjack simulator game, along with a blackjack player implementing an optimal playing strategy.
- Utilized Vectors I had implemented myself in memory to store the "decks" and "cards".