

# Yash Kapoor

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## Education

**Graduation:**  
May 2022

University of Maryland, College Park, MD

**University Honors, Dean's List**

*Bachelor of Science, Computer Engineering with Minor in Mathematics*

GPA: 3.3

**Selected Coursework:**

Major: Algorithms, Organization of Programming Languages, Databases, Intro to Data Science, Signal Analysis, Circuits, Digital Logic Design

Minor: Linear Algebra, Number Theory, Advanced Calculus

## Work History

Aug 2020

### Software Engineering Intern

*J.P. Morgan Chase*

- Established financial data feeds to stream live data and visualized the data using **Perspective** to find trends and make comparisons
- Used **React.js** to render a live graph of data feed to a website to provide easy access to clients
- Implemented triggers to alert client when ratio of monitored stocks reached a certain threshold

Aug 2019 – March 2020

*(Discontinued due to COVID-19)*

### STEM Tutor

*University of Maryland - College Park*

- Spearheaded group tutoring sessions for Computer Science and Mathematics classes to help students struggling in areas like object-oriented programming, data structures, and linear algebra
- Guided students to increase understanding, identify lagging skills, and correct weaknesses
- Helped increase the students' grades by an average of 7% over the semester

Aug 2017 –  
June 2018

### Computational Research Intern

*George Washington University*

- Conducted research, under Dr. Banaudha, regarding gene distribution and expression to ascertain causes of health issues in populations
- Analyzed genetic expressions to understand similarities in social behavior among dogs and humans
- Automated data aggregation using **Python's Pandas library** to reduce data processing time by 40%

## Projects

[yashkaps.github.io/ttleague](https://yashkaps.github.io/ttleague)

### UMD Table Tennis Club Web App

| **Personal Project**

- Created a webapp to display Thursday Night League results with an admin page for data management using **Native JavaScript** for frontend, and **Microsoft Excel** files for storing data
- Website visited by 50+ people per week with frequent updates based on user feedback and necessity

[umdhare.com](https://umdhare.com)

### The Hare at UMD

| **Group Project**

- Used **Vue.js** to revamp UI and app interface for news website with 200+ visitors per month
- Made use of **Bootstrap-Vue** to create and style custom components for rendering webpages
- Collaborated with designers and other developers to implement and improve features such as overall layout, color schemes, and animations

### Social Media Usage and Perception of Data Distribution | Group Project

- Simulated a social media platform using an **Arduino Mega** to control 24 (physical) buttons to simultaneously collect and process data, and the **Arduino Serial library** to communicate data to **Processing 3** for analysis and visualization
- Gained greater insight on data collection and mining and as applicable to data science roles

## Skills

### Proficient:

Python (Pandas, Matplotlib), JavaScript (Node.js, Native JS, Bootstrap), HTML/CSS, MATLAB, Java, Git

### Familiar:

Python (SQLite, Seaborn), SQL, JavaScript (React.js, Vue.js), C/C++, Ruby, OCaml, Arduino, Android Studio, Processing 3

## Additional Info

### Secretary, UMD Table Tennis Club

- Responsible for communication between club members and making important announcements
- Altered club practices to make the clubroom a safe space by highly encouraging members to wear masks as early as half a month before universities went online due to COVID-19
- Managed the club roster and ensured all members fulfilled university-stipulated requirements