

Yash Kapoor

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Education

Graduation:
December 2021

University of Maryland, College Park, MD

University Honors, Dean's List

Bachelor of Science, Computer Engineering with Minor in Mathematics

Computer Engineering GPA: 3.4, Mathematics GPA: 3.6

Selected Coursework:

Major: Object-Oriented Programming, Discrete Structures, Algorithms, Organization of Programming Languages, Databases, Intro to Data Science, Signal Analysis, Circuits, Digital Logic Design

Minor: Probability & Statistics, Linear Algebra, Number Theory, Advanced Calculus

Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Git, Ruby, OCaml, PHP

Frameworks: Node.js, React.js, Bootstrap

Software: MATLAB, Android Studio, Processing 3, Arduino

Projects

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 **React.js** for frontend, and **Microsoft Excel** files for storing data
- Website visited by 20 people per week with frequent updates based on user feedback and necessity

Small-C Interpreter

| Academic Project

- Used **OCaml** to develop a lexer, parser, and interpreter for line-by-line interpretation of some operations of **Small-C**
- Interpreter handles simple mathematical operations as well as logical flow elements such as if-else statements and loops
- Currently supports primitive datatypes and common operations

Social Media Usage and Perception of Data Distribution | Collaborator

- Small scale simulation of data collection and analysis abilities of social media
- Used **Arduino Mega** to control and read 24 buttons to simultaneously collect and process data
- Used the **Arduino Serial library** to communicate data to **Processing 3** for analysis and visualization

Work History

March 2020 – Present

Freelance Web Developer

College Park

- Created and maintained websites for university clubs such as the Table Tennis Club
- Used **React.js** and **Bootstrap** for frontend and **Node.js** for backend to ensure a fast and aesthetically pleasing user experience

Aug 2019 – March 2020

Teaching Assistant

(Discontinued due to COVID-19)

University of Maryland - College Park

- Spearheading group tutoring sessions for Computer Science and Mathematics classes to help students struggling in areas such as object-oriented programming, data structures, calculus as well as linear algebra
- Guided an average of 15 students per week to increase understanding, identify lagging skills and correct weaknesses

Aug 2017 –
June 2018

Computational Research Intern

George Washington University

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

Additional Information

Secretary, UMD Table Tennis Club

- Responsible for communication between club members and making important announcements
- Managed the club roster and ensured all members fulfilled university-stipulated requirements

Member, UMD Robotics Club

- Participated in design and programming of an underwater autonomous vehicle (AUV) for the annual RoboSub competition