Yash Kapoor

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Education

Graduation:
May 2022

University of Maryland, College Park, MD

University Honors, Dean's List (F20, S20)

B.S., Computer Engineering | Minor, Mathematics

GPA: 3.6/4.00

Selected Coursework:
Major: Algorithms, Organization of Programming Languages, Databases, Data Science, Signal Analysis, Circuits, Digital Logic Design, Microelectronics, Computer Organization
Minor: Multivariable Calculus, Linear Algebra, Number Theory, Advanced Calculus

Work Experience

Jan 2021 – Present

Undergraduate Teaching Fellow

University of Maryland, College Park – Department of Electrical and Computer Engineering
- Assisting students in understanding a variety of topics such as including circuits, wireless communication, signal processing and computer vision
- Supervising two 2-hour lab sessions and office hours weekly to provide hand-on experience with relevant technologies

Dec 2020 – Present

Backend Web Developer

CORA – Combating Overdoses in Rural Areas
- Using **Node.js** and **Express.js** to create an API to facilitate communication between the frontend and a **MongoDB** database
- Using **Python** libraries such as **Requests**, **BeautifulSoup** and **Pandas** to collect and clean data to enrich our database

Oct 2020 – Present

(New website not live yet)

Frontend Web Developer

University of Maryland, College Park – WMUC-FM
- Using **React.js** with **React-Bootstrap** to build an interactive and engaging user interface for a new website for WMUC-FM, a radio station licensed to the University of Maryland

Aug 2020 - Sep 2020

Frontend Web Developer

The Hare @ UMD
- Utilized **Vue.js** with **Bootstrap-Vue** to revamp UI for news website with 2000+ visitors per month

Jun 2020 - Aug 2020

Software Engineering Intern

J.P. Morgan Chase
- Used **React.js** to establish financial data feeds and found useful trends through visualization of data

Aug 2019 – March 2020

(Discontinued due to COVID-19)

STEM Tutor

University of Maryland, College Park – CMNS
- 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

Aug 2017 – June 2018

Computational Research Intern

George Washington University
- Conducted research under Dr. Banaudha regarding causes of health issues and automated data aggregation using **Python's Pandas library** to reduce data processing time by 40%

Projects (More projects at GitHub.com/Yashkaps)

Game with AI | Personal Project
- Implemented the popular board game Connect-4 for single and 2 player modes using **Python's PyGame** and **NumPy** libraries
- AI makes decisions based on **MiniMax Algorithm** with depths of 2 (Easy), 3 (Hard) or 4 (Hell)

Todo List (Fullstack) | Personal Project
- Created a web app to keep track of tasks using **React.js** for frontend, **Node.js** and **Express.js** for backend and **PostgreSQL** as a database (**PERN stack**)

Skills

Proficient:	**Familiar:**
Python (*Pandas, Matplotlib, SQLite*), JavaScript (*Node.js, Express, MongoDB, Bootstrap*), HTML/CSS, MATLAB, Java, C++, SQL, Git	Python (*Seaborn, TKinter, PyGame*), JavaScript (*React.js, Vue.js*), C, Ruby, OCaml, Arduino, Android Development, Assembly