Yash Kapoor

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ykapoor@umd.edu	(202) 320-9542	linkedin.com/in/kapoor-yash/	yashkaps.github.io/
ducation			
Expected Graduation: May 2022	University of Maryland, College Park		
	University Honors		
	B.S., Computer Engineering Minor in Mathematics		
	GPA: 3.6/4.00		
Vork Experience			
Jan 2021 – Present	Teaching Assistant		
	University of Maryland, College Park – A. James Clark School of Engineering		
	 Assisted students in understanding a variety of topics such as circuits, wireless communication, signal processing and computer vision 		
		periment with and understand relevant	technologies
May 2021 – Aug 2021	Head Research Assistant		
		: – A. James Clark School of Engineering	
	 Led a small team of undergraduate and graduate students to research IoT technology 		
	 Utilized existing resources to develop a low-cost system for swarm technology to be used for humanitarian acts such as disaster relief 		
	 Developed algorithms to estimate flight parameters of drones using image processing to be used 		
	on a Raspberry Pi 4 (with a PiCamera as video input) with minimal latency		
Dec 2020 – May 2021	Backend Web Developer		
	CORA – Combating Overdoses in R		
	 Created an API using Node.js as MongoDB database 	nd Express.js to allow communication b	etween the frontend and a
		Requests, BeautifulSoup4 and Pandas to	gather and process data
		organization's databse, increasing are	a coverage by 30%
Aug 2020 – May 2021	Frontend Web Developer		
	WMUC Radio		W.1110 EV.4 I' I'.
		ng user interface for a new website for V yland, using ReactJS with React-Bootstr o	
	The Hare	,	-r
	 Revamped UI for news website website traffic by 40% 	with 2000+ visitors per month using VueJ	S , leading to increase in
Aug 2019 – March 2020	STEM Tutor		
-	University of Maryland, College Park	- College of Computer, Mathematical	and Natural Sciences
Projects (More projects o	at GitHub.com/Yashkaps)		
, , , ,	Game with Al		
	 Implemented the popular boar 	rd game Connect-4 for single and 2 pla	yer modes using Python's
	PyGame and NumPy libraries		
		NiniMax Algorithm with depths of 2 (Easy), 3 (Hard) or 4 (Impossible)
	COVID-19 Cases & Youth	•	
		ch as Pandas , Requests , Matplotlib , and VID-19 cases and the youth population	
	Job Application Filter for G	Smail Smail	
	• •	nly retrieve emails relevant to the job ap	plication process and
	update a spreadsheet based o	on the email contents	

Web Development: HTML/CSS, Javascript, ReactJS, VueJS, ExpressJS, NodeJS, Bootstrap **Data:** Python (Pandas, BeautifulSoup, Matplotlib, Numpy), PostgreSQL, MongoDB, MATLAB

Machine Learning: Scikit Learn, Keras, Tensorflow

Other: Git, Java, C++, Ruby, OCaml, Assembly, Android Studio

Engineering: Arduino, Raspberry Pi 4, ESP-32, Microelectronics, Verilog, Circuit Development

(Analog, Digital), Controller Design, Signal Analysis, Embedded Systems