









Abhay Singh

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education	Cornell University , Ithaca, NY <i>B.S. in Computer Science</i>	May 2021 (expected) GPA: 4.16/4.00
experience	Morgan Stanley , New York, NY <i>Incoming Technology Summer Analyst</i>	June 2019 – Aug 2019
	Cornell University Unmanned Air Systems , Ithaca, NY <i>Software Engineer, Computer Vision</i>	October 2018 – present
	<ul style="list-style-type: none">• Implemented target orientation detection algorithm with OpenCV, improving accuracy by 92%• Wrote scripts to automate workflow, automatically cropping and organizing tagged images	
	Damco Solutions Inc. , New Delhi, India <i>Software Engineer Intern</i>	June 2017 – June 2017
	<ul style="list-style-type: none">• Deployed Android application PhotoShelf (photoshelf.in) in development team of 4• Implemented UI using Android Studio and XML in preparation of launch• Sped up workflow by 1 week by designing wireframes that allowed concurrent implementation of logic and UI design• Consulted higher management and collaborated with the CEO & Managing Director to streamline the app's UX design and flow	
	Data Science for India <i>Instructor & Curriculum Developer</i>	July 2017 – Oct 2017
	<ul style="list-style-type: none">• Developed curriculum of 11 interactive-programming Jupyter notebooks, 12 statistics-based worksheets, and 1 final project, which was taught to over 400 students across India• Instructed course in-person to 38 students, beginning with fundamentals of Python and statistics• Extensively used numpy, pandas, and matplotlib to visualize, manipulate, and discern useful data from large data sets	
projects	Space Invaders 	<i>built using Python, Kivy</i>
	<ul style="list-style-type: none">• Fully-functioning implementation of the retro arcade game Space Invaders with Model-View-Controller (MVC) and State design patterns• Thoroughly utilizes OOP fundamentals of data abstraction, encapsulation, and inheritance	
	Virtual Stock Market 	<i>built using Flask, Python, SQLite, JavaScript, HTML, CSS</i>
	<ul style="list-style-type: none">• RESTful web app that gives users \$10,000 of paper money and scrapes/parses live stock prices as JSON objects, storing them as purchases and sales of a given user in a database• Allows users to: sign-up, login, change password, quote live stock prices, buy and sell stocks at live prices, view index of owned stocks with total live value, & view trade history	
	Spellchecker 	<i>built using C</i>
	<ul style="list-style-type: none">• Checks inputted text file for misspellings against a changeable dictionary and prints out all misspelled words in a command-line interface (CLI)• Stores every word of entire English dictionary in a self-implemented hash table, using low-level memory management with pointer references, malloc(), and free()	
	Reddit Playlist	<i>built using Java, XML, Android Studio</i>
	<ul style="list-style-type: none">• Android app that converts user-selected subreddits into objects for conversion into live YouTube playlists to watch or listen• Retrieves video posts using a subreddit's RSS feed and YouTube's API to format into a ListView	
	Tweet Sentiment Analyzer 	<i>built using Flask, Python, HTML, CSS</i>
	<ul style="list-style-type: none">• Takes an inputted Twitter username and scores user's tweets as positive, neutral, or negative	
skills	Python, Java, HTML, CSS, JavaScript, C, Git, Flask, Bash/Shell, L ^A T _E X	