









Abhay Singh

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education	Cornell University , Ithaca, NY B.S. in Computer Science, GPA: 4.16/4.00	May 2022 (expected)
coursework	Analysis of Algorithms, Systems Programming, Object-Oriented Programming & Data Structures, Discrete Structures, Linear Algebra, Probability Models & Inference, Multivariable Calculus	
languages & technologies	Python, Java, HTML, CSS, JavaScript, C, SQL, Bash, \LaTeX , Git, OpenCV, Keras, TensorFlow, NumPy, Pandas, SciPy, Docker, Flask	
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">• Developed software for real-time automatic detection, localization, and classification of multi-class target images captured from high-altitude autonomous aircraft• Designed convolutional neural network with 93.8% classification accuracy on Fashion-MNIST• 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 (photoshell.in) in development team of four• Sped up workflow by 1 week by designing wireframes that allowed concurrent implementation of back-end logic and front-end 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 introductory data science curriculum of 11 Jupyter notebooks that used numpy, pandas, and matplotlib to discern, visualize, and manipulate useful data from large data sets	
projects	Space Invaders 	
	<ul style="list-style-type: none">• Implemented retro arcade game in Python with MVC and State design patterns	
	Virtual Stock Market 	
	<ul style="list-style-type: none">• Deployed RESTful web app in Python using Flask that retrieves live stock prices, storing transactions with SQLite• 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 	
	<ul style="list-style-type: none">• Implemented spellchecker in C that determines misspellings against a changeable dictionary• Stores words of English dictionary in a self-implemented hash table, using low-level memory management with pointer references, malloc(), and free()	
	Reddit Playlist	
	<ul style="list-style-type: none">• Deployed Android app that converts subreddits into YouTube playlists• Retrieves and plays video posts with a subreddit's RSS feed and YouTube's API	
	Tweet Sentiment Analyzer 	
	<ul style="list-style-type: none">• Scores user's tweets as positive, neutral, or negative using Twitter API and visualizes data	