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contact	 as2626@cornell.edu  singh2000abhay.github.io	 linkedin.com/in/singh2000abhay  github.com/singh2000abhay
education	<b>Cornell University</b> , Ithaca, NY <i>B.S. Computer Science</i>	Aug 2018 – present
experience	<b>Software Engineer Intern, Android</b> <i>Damco Solutions Inc. – damcogroup.com</i> Deployed Android application PhotoShelf (photoshelf.in) in development team of 4 <ul style="list-style-type: none"><li>• Implemented UI using Android Studio and XML in preparation of launch</li><li>• Employed object-oriented programming (OOP) fundamentals in Java</li><li>• Sped up workflow by 1 week by designing wireframes that allowed concurrent implementation of logic and UI design</li><li>• Consulted higher management and collaborated with the CEO &amp; Managing Director to streamline the app's UX design and flow</li></ul> <b>Instructor &amp; Curriculum Developer</b> <i>Data Science for India – datascienceforindia.com</i> 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 <ul style="list-style-type: none"><li>• Instructed course in-person to 38 students, beginning with fundamentals of Python and statistics</li><li>• Extensively used numpy, pandas, and matplotlib to visualize, manipulate, and discern useful data from large data sets</li></ul>	June 2017 – June 2017  July 2017 – Oct 2017, June 2018 – present
projects	<b>Space Invaders</b>  <ul style="list-style-type: none"><li>• Fully-functioning implementation of the retro arcade game Space Invaders with Model-View-Controller (MVC) and State design patterns</li><li>• Thoroughly utilizes OOP fundamentals of data abstraction, encapsulation, and inheritance</li></ul> <b>Virtual Stock Market</b>  <ul style="list-style-type: none"><li>• 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</li><li>• 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, &amp; view trade history</li></ul> <b>Spellchecker</b>  <ul style="list-style-type: none"><li>• Checks inputted text file for misspellings against a changeable dictionary and prints out all misspelled words in a command-line interface (CLI)</li><li>• Stores every word of entire English dictionary in a self-implemented hash table, using low-level memory management with pointer references, malloc(), and free()</li></ul> <b>Reddit Playlist</b> <ul style="list-style-type: none"><li>• Android app that converts user-selected subreddits into objects for conversion into live YouTube playlists to watch or listen</li><li>• Retrieves video posts using a subreddit's RSS feed and YouTube's API to format into a ListView</li></ul> <b>JPEG Recovery</b>  <ul style="list-style-type: none"><li>• CLI application that recovers JPEG files from formatted memory cards (.raw files)</li></ul> <b>Tweet Sentiment Analyzer</b>  <ul style="list-style-type: none"><li>• Takes an inputted Twitter username and scores user's tweets as positive, neutral, or negative</li></ul> <b>Puzzle of Fifteen</b>  <ul style="list-style-type: none"><li>• Plays the puzzle of fifteen game (en.wikipedia.org/wiki/15_puzzle) in a CLI</li></ul>	<i>built using Python, Kivy</i>  <i>built using Flask, Python, SQLite, JavaScript, HTML, CSS</i>  <i>built using C</i>  <i>built using Java, XML, Android Studio</i>  <i>built using C</i>  <i>built using Flask, Python, HTML, CSS</i>  <i>built using C</i>
skills	Python, Java, HTML, CSS, JavaScript, C, Git, Flask, Bash/Shell, L <sup>A</sup> T <sub>E</sub> X	