

# Abhay Singh

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## contact information

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## education

**Cornell University**, Ithaca, NY  
*B.S., Computer Science*

Aug 2018 – May 2022

*Relevant Coursework:* Object-Oriented Design and Data Structures - Honors [CS 2112], Introduction to Computer Science [edX], Andrew Ng's Machine Learning [Coursera]

**Pathways School Gurgaon**, Haryana  
*IB Diploma Programme* Valedictorian, *IGCSE* School Topper

Aug 2014 – May 2018

## professional experience

**Damco Solutions**, Faridabad, Haryana – [damcogroup.com](https://damcogroup.com)  
*Android Development Intern*

June 2017

Deployed mobile application PhotoShelf ([photoshelf.in](https://photoshelf.in)) in development team

- Implemented UI using Android Studio and XML
- Employed object-oriented programming fundamentals in Java
- Designed wireframes to allow methodical implementation of logic and design concurrently
- Consulted regularly and collaborated coherently with higher-level management including the CEO and Managing Director particularly about the app's UX design and flow

**Data Science for India** – [datascienceforindia.com](https://datascienceforindia.com)

July 2017 – Oct 2017

*Instructor & Assistant Syllabus Developer*

Taught and helped develop course of 11 interactive-programming Jupyter notebooks, 12 statistics-based worksheets, and 1 final project

- Taught course in person to 2 schools, beginning with fundamentals of Python and statistics
- Extensively used numpy and matplotlib to visualize, manipulate, and discern useful data from large data sets

## projects

**Virtual Stock Market** 🐙 *Flask, Python, SQLite, phpLiteAdmin, JavaScript, HTML, CSS*

- RESTful web app that gives use \$10,000 of paper money and scrapes live stock prices from the web as JSON objects
- 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** 🐙

*written in C*

- Stores words of dictionary in a hashtable and uses low-level memory management with malloc(), free(), and pointers
- Checks inputted text file for misspellings against a changeable dictionary and prints out all misspelled words in a CLI

**Reddit Playlist**

*Java, XML, Android Studio*

- 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

**JPEG Recovery** 🐙

*written in C*

- CLI application that recovers JPEG files from formatted memory cards (.raw files)

**Tweet Sentiment Analyzer** 🐙

*Flask, Python, HTML, CSS*

- Takes an inputted Twitter username and scores user's tweets as positive, neutral, or negative

**Game/Puzzle of Fifteen** 🐙

*written in C*

- Plays the puzzle of fifteen ([en.wikipedia.org/wiki/15\\_puzzle](https://en.wikipedia.org/wiki/15_puzzle)) in a CLI

## more to know about me

*Technical Skills:* Python, Java, C, JavaScript, Flask, HTML, CSS, XML, Android, Git, GitHub, SQLite, phpLiteAdmin, Bash/Shell,  $\text{\LaTeX}$

*Languages:* English, Hindi, Spanish, Arabic

*Tools:* Visual Studio Code, Brackets, IntelliJ, PyCharm, Android Studio, Notepad++, IPython/Jupyter

*Interests:* Filmmaking, Writing, Volunteer Work, Traveling, Sports, Photography, Reading, Eating, (and of course coding)