

Abhay Singh

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, Intro to Computer Science, Andrew Ng’s Machine Learning [Coursera]

Pathways School Gurgaon, India

Aug 2014 – May 2018

IB Diploma Programme Valedictorian, *IGCSE* School Topper

professional experience

Damco Solutions, Faridabad, Haryana – damcogroup.com

June 2017 – June 2017

Android Development Intern

Deployed mobile application PhotoShelf (photoshelf.in) in development team

- Implemented UI using Android Studio and XML in preparation of launch
- Employed object-oriented programming fundamentals in Java
- Designed wireframes to allow methodical implementation of logic and design concurrently
- Consulted higher management and collaborated with the CEO & Managing Director to streamline the app’s UX design and flow

Data Science for India – 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 41 students, 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 🐙

built using Flask, Python, SQLite, JavaScript, HTML, CSS

- RESTful web app that gives users \$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 🐙

built using 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

built using 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 🐙

built using C

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

Tweet Sentiment Analyzer 🐙

built using Flask, Python, HTML, CSS

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

Game/Puzzle of Fifteen 🐙

built using C

- Plays the puzzle of fifteen (en.wikipedia.org/wiki/15-puzzle) in a CLI

other

Technical Skills: Python, Java, C, JavaScript, Flask, HTML, CSS, XML, Android, Git, GitHub, SQLite, phpLiteAdmin, Bash/Shell, L^AT_EX

Languages: English, Hindi, Spanish, Arabic

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

Interests: Filmmaking, Writing, Volunteer Work, Traveling, Sports, Photography, Reading, Eating