

Abhay Singh

contact information

✉: as2626@cornell.edu
📧: singh2000abhay.github.io

in: linkedin.com/in/singh2000abhay
📄: github.com/singh2000abhay

education

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

Aug 2018 – May 2022

Relevant Coursework: Object-Oriented Design & Data Structures – Honors, Intro to Computer Science

Pathways School Gurgaon, India
IB Diploma Programme Valedictorian, IGCSE School Topper

Aug 2014 – May 2018

professional experience

Damco Solutions, Faridabad, Haryana – damcogroup.com
Android Development Intern

June 2017 – June 2017

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

- Implemented UI using Android Studio and XML in preparation of launch
- Employed object-oriented programming (OOP) fundamentals in Java
- 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 – datascienceforindia.com
Curriculum Developer & Instructor

July 2017 – Oct 2017, June 2018 –

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 📄

built using Python, Kivy

- Fully-functioning implementation of the retro arcade game Space Invaders with a Model-View-Controller (MVC) architectural pattern
- Thoroughly utilized OOP fundamentals of data abstraction, encapsulation, and inheritance

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

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

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

Puzzle of Fifteen 📄

built using C

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

other

Technical Skills: Python, Java, HTML, CSS, JavaScript, C, Flask, Git, Bash/Shell