Aviraj Mukherjee

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Education

University of California - Irvine, Irvine, CA - *B.S. Computer Engineering* Graduation Date: June 2022
Relevant Coursework

- EECS 31: Digital Design/Digital Systems, EECS 20: Computer Systems and Programming in C, ICS 6D: Discrete Mathematics for Computer Science, EECS 22/22L: Advanced C Programming

Skills

- Python, Java, C++, C, Flask, HTML/CSS, Javascript
- Linux, Git, Assembly Language, Object-Oriented Programming

Experience

JP Morgan Chase & Co. ***Software Engineering Virtual Experience*** May 2020 -June 2020

- Established skills in Financial Data Feeds, Frontend Web Development, and Data Visualization with Perspective using Python and Javascript.

Projects/Research

Chess: *https://github.com/Aviraj55/chessProject* April 2020 - June 2020

- Chess project in C programming language that uses socket communication to play against another player online or locally against a computer opponent or another player on the same client. Introduced me to socket programming and basic game development.

MovieLab: *https://github.com/Aviraj55/movieLab* February 2020 - March 2020

- School project to take in input files/images and do Digital Image Processing on them. Refined my Data Structures skills and working with

Reciparser: *https://github.com/Aviraj55/HACKUCI2020* January 2020 - January 2020

- Project at HackUCI where me and my team built a website that parses through thousands of recipes from various websites and returns recipes a user can make, given their ingredients that they have at home.

Zotify: *https://github.com/Aviraj55/zotHacks2019* November 2019 - November 2019

- At a hackathon (ZotHacks), my team and I built a web application to create a playlist of a user's favorite spotify tracks. Future plans are to display the lyrics to a user's currently playing song on the website.
- Developed my experience with working with React/Flask and calling APIs. Further developed my skills as a team lead and working as a collective with time restrictions.

Research Assistant, Troy, NY August 2017 - June 2018

- Developed an application in Python to retrieve medical data from thousands of respondents for the National Institute of Health's federal Health Information National Trends Survey Database and examine potential correlations between factors such as race, socioeconomic status, and an individual's health literacy and his or her susceptibility to certain diseases.
- Conducted a follow-up survey with a smaller, more local sample to compare to the national level to observe the differences in susceptibility to disease in upstate NY to nationwide averages.