# Aviraj **Mukherjee**

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## **Edu**cation

**University of California - Irvine** *Irvine, CA*

B.S. IN COMPUTER ENGINEERING *Graduation Date: June 2022*

- Dean's Honor List
- Relevant Coursework
  - EECS 31/31L: Digital Design/Systems, ICS 6D: Discrete Mathematics for Computer Science
  - EECS 22/22L: Advanced C Programming, EECS 40: Object Oriented Programming

## **Ski**lls

| | |
|---|---|
| **Experience With** | Linux, Git, Flask, AWS, REST API |
| **Programming** | Python, Java, C/C++, HTML/CSS, JavaScript, SQL, Assembly |
| **Hardware** | VHDL, Verilog |

## **Exp**erience/Projects

**Account Management** *Albany, NY*

PROJECT    HTTPS://GITHUB.COM/AVIRAJ55/ACCOUNTMANAGEMENT *Oct. 2020 - Nov. 2020*

- Created a REST API to handle account management on an AWS RDS (MySQL AuroraDB) database.
- Current functionality includes adding profiles and getting user account data through HTTP requests.
- REST API was created using Python and AWS Lambda functions.
- Introduced me to backend web development, cloud computing, AWS work enviornment, and SQL.

**JP Morgan Chase & Co** *Online*

ONLINE SOFTWARE ENGINEERING VIRTUAL INTERN *April 2020 - June 2020*

- Established Skills in Financial Data Feeds, front-end Web Development, and Data Visualization with perspective using Python, JavaScript and React.

**Chess** *Irvine, CA*

PROJECT    HTTPS://GITHUB.COM/AVIRAJ55/CHESSPROJECT *April 2020 - June 2020*

- Chess project in the C programming language that uses socket communication to allow users to play either online or locally against a computer or another player.
- Introduced me to socket communication and basic game development and applications for data structures.

**MovieLab** *Irvine, CA*

PROJECT    HTTPS://GITHUB.COM/AVIRAJ55/MOVIELAB *Feb. 2020 - Mar. 2020*

- Project in C that takes in photos and videos as input files and performs Digital Image Processing on them.
- Refined my data structures sills by putting them into practical use through application.

**Reciparser** *Irvine, CA*

PROJECT    HTTPS://GITHUB.COM/AVIRAJ55/HACKUCI2020 *Jan. 2020*

- Project at HackUCI where me and my team built a website which parses through thousands of websites from various websites, searching for recipes which include ingredients inputted by the user.
- Introduced me to front-end web development.

**Zotify** *Irvine, CA*

PROJECT    HTTPS://GITHUB.COM/AVIRAJ55/ZOTHACKS2019 *Nov. 2019*

- Hackathon project where a team and I built a web application to create a Spotify playlist of a user's favorite tracks.
- Developed my experience with working with React/Flask and APIs. Developed my experience as a team lead and working as a collective with time restrictions.

**Rensselaer Polytechnic Institute** *Troy, NY*

RESEARCH ASSISTANT *Aug. 2017 - June 2018*

- Devloped 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 (HINTS) 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 data to observe the differences in susceptibility to disease in upstate NY to national averages.