

# Aviraj Mukherjee

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## Education

### 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 Systems & Programming, EECS 114 Data Structures and Algorithms

## Skills

**Experience With** Linux, Git, Flask, AWS, REST API, Node.js, Vue.js, Express.js, NoSQL Databases  
**Languages** Python, Java, C, C++, HTML/CSS, JavaScript, TypeScript, SQL, Assembly  
**Hardware** VHDL, Verilog

## Experience/Projects

### Amazon

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEER INTERN

June 2021 - Sept. 2021

- Developed a serverless Slack bot for internal help channel. Classified repeat questions into bins and the bot provided immediate responses based on previous answers.
- Reduced number of tickets sent to team by 30%, saving team enginners' bandwidth and decreasing turnaround time for question askers.
- Stack: Java, Typescript, AWS Lambda, AWS DynamoDB, AWS API Gateway, AWS CDK, AWS IAM

### GreyCastle Security

Troy, NY - Online

SOFTWARE DEVELOPMENT INTERN

Dec. 2020 - May 2021

- Developed internal company portal written in Node.js using Express.js as a web framework for a company-wide isms implementation.
- Developed experience as a Full Stack Developer through automation of various business tasks, enabling business departments to work more efficiently and increase productivity.
- Stack: JavaScript, TypeScript, Node.js, Vue.js, Express.js, MySQL, PostgreSQL

### Account Management

Albany, NY

PROJECT [HTTPS://GITHUB.COM/AVIRAJ55/ACCOUNTMANAGEMENT](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.
- Stack: Python, AWS RDS (MySQL), AWS IAM

### 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.
- Stack: Python, JavaScript, React

### Chess

Irvine, CA

PROJECT [HTTPS://GITHUB.COM/AVIRAJ55/CHESSPROJECT](https://github.com/Aviraj55/ChessProject)

April 2020 - June 2020

- Chess project 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.
- Stack: C

### MovieLab

Irvine, CA

PROJECT [HTTPS://GITHUB.COM/AVIRAJ55/MOVIELAB](https://github.com/Aviraj55/MovieLab)

Feb. 2020 - Mar. 2020

- Project takes photos and videos as input files and performs Digital Image Processing on them (applying filters, reversing video, speeding up/slowing down video playback speed).
- Refined my data structures skills by putting them into practical use through application.
- Stack: C