

# BETROS ABRAHA

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## **EDUCATION:**

### **University of California, Santa Cruz**

*Bachelor of Science in Computer Engineering*

GPA: 3.5

Santa Cruz, CA

*Expected December 2023*

### **Berkeley City College**

*Associate of Science in Computer Information System*

GPA: 3.6

Berkeley, CA

*May 2021*

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**Relevant Skills:** C, C++, Java, Python, JavaScript, React, MATLAB, HTML, and Linux.

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## **EXPERIENCE:**

### **John Deere**

*Full-Stack Engineering Intern*

Moline, IL

*June 2022 - Present*

- Worked on Supplier Sourcing Management team to design and develop UI and API applications in an Agile environment.
- Helped team transition CI/CD pipeline from Drone and Jenkins to GitHub Actions.

### **University of California Santa Cruz**

*Assistant PhD Student*

Santa Cruz, CA

*August 2021 - Present*

- Assist research project in Human-Computer Interaction (HCI) and social computing.
- Ensure computers and information technology does not pose any risk to the users.
- Created a Python program using PRAW API to analyze Reddit comments and upvotes for qualitative and quantitative analysis purposes.

### **University of California Santa Cruz**

*Assistant PhD Student*

Santa Cruz, CA

*March 2022 – June 2022*

- Assist research project in Augmented Design Laboratory to study and create non-deterministic autonomous vehicles and jaywalking pedestrian interactions.
- Created an aggressive pedestrian model using python in unreal engine simulator environment.

### **University of California Santa Cruz**

*Frontend Developer Tech4Good Lab*

Santa Cruz, CA

*August 2021 – December 2022*

- Use HTML, CSS, and Angular to develop a lab website and an application to support teamwork foster community and authentic relationships.
- Refines debugging process.

## **University of California Santa Cruz**

*Assembly language Tutor*

Santa Cruz, CA

*August 2021 – December 2022*

- Work closely with multiple computer science students to tutor in digital logic, number systems, data structures, compiling/assembly process, basics of the system software, and computer architecture.

## **HCL Technologies Inc**

*Full-Stack Engineering Intern*

Sacramento, CA

*June 2021 – August 2021*

- Attended a training on application development. I learned Spring Fundamentals, Microservices, Microservices with Spring Boot, Docker, Containers and Container Registry, Kubernetes, CI/CD implementation with git and Jenkins, and AWS basics.
- After completing the training, I was able to work on a project which is developing an application using JavaScript, React, and Java.

## **Berkeley City College**

*Computer Science/Math Tutor*

Berkeley, CA

*August 2020 – May 2021*

- Helped students in Algebra, Geometry, Pre-Calculus, Calculus 1/2/3 and Differential Equation.

## **Best Parking Garage**

*Customer Service*

San Francisco, CA

*July 2017 – March 2020*

- Assisted guests and patrons of the hotel with the parking and delivery of their vehicles to ensure customer satisfaction.
- Helped with responsibilities and duties in the areas of Bell Staff, Door Staff or Valet Parking Cashier.

## **Iron Cloud**

*Security Guard*

San Francisco, CA

*July 2017 – March 2020*

- Patrolled grounds and buildings of the warehouse to ensure safety.
- Kept record and generated reports on property damage, malfunctioning equipment, and out-of-place occurrences.

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## **PROJECTS:**

### **Application for Parking Lot**

- I built an application that can measure how many vehicles are in the lot and how many open spots are left while working as a valet attendant.

### **Chat application**

- I lead a Chat application project with my fellow interns. I designed a chat service using Azure Communications Services that can be embedded to any web application.

### **Reddit post parser**

- Created a Python program using PRAW API and Panda.
- User can input date in range, keyword and Subreddit as parameters and it outputs all posts that has the keyword with comments to an excel sheet.

