BETROS ABRAHA

Oakland, CA 94606

bbabraha@ucsc.edu ♦ (510)987-6603 ♦ linkedin.com/in/betros-a-513a3716a

EDUCATION:

University of California, Santa Cruz   Santa Cruz, CA
Bachelor of Science in Computer Engineering   *December 2023*
Berkeley City College
Associate of Science in Computer Information System   Berkeley, CA
GPA: 3.6   *May 2021*

Relevant Skills: C, C++ (2years), JavaScript (1years), React (1years), Java (1year), Python(2y), MATLAB
MySQL, SQL, Firebase, Spring Boot, Flask, Docker, AWS lambda, EC2, Embedded RTOS, LAN/WAN, TCP/IP
Networking, Linux,

EXPERIENCE:

John Deere   Moline, IL
Full-Stack Engineering Intern   *June 2023 - Present*
- Developed an application that encrypt and transfer data from one API to another API.
- Implemented automated vulnerability scanner to GitHub using GitHub actions.

John Deere   Moline, IL
Full-Stack Engineering Intern   *June 2022 - September*
- Worked on Supplier Sourcing Management team to design and develop UI and API applications.
- Helped team transition CI/CD pipeline from Drone and Jenkins to GitHub Actions.

University of California Santa Cruz   Santa Cruz, CA
Assistant PhD Student   *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   Santa Cruz, CA
Assistant PhD Student   *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.

HCL Technologies Inc   Sacramento, CA
Full-Stack Engineering Intern   *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.

PROJECTS:

Academic Planner Application (Source GitHub)
- Built an application that can Generate 4 or 5-year academic plans tailored to your major and degree requirements, ensuring timely completion of all necessary coursework.

Chat application
- Developed a Chat application project with my fellow team at John Deere. We designed a chat service using Azure Communications Services that can be embedded to any web application.

Reddit post parser (Source GitHub)
- 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.

Carla Jaywalker experiment (Source GitHub)
- Created a python script for testing the algorithms for autonomous vehicles and Jaywalking pedestrians.