

ANKUR AHIR

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EDUCATION

University of California: Santa Cruz

Expected Graduation: May 2024

B.S. in Computer Engineering

Santa Cruz, CA

- **GPA:** 3.8/4.0, Dean's List
- **Related Coursework:** Data Structures and Algorithms, Systems Programming, Distributed Systems, Computer Networks, Computer Architecture

EXPERIENCE

Experimental and Virtualized Systems Research Lab

Sep 2023 – Present

Research Assistant

Santa Cruz, CA

- Developed a web socket server using Spring Boot and Pub/Sub architecture, enabling users to join chat rooms, resulting in an average latency of 200ms
- Incorporated a logistic regression-based ranking algorithm to prioritize questions answered incorrectly by users

Lockheed Martin

Jun 2021 – Dec 2022

Software Development Engineering Intern

Remote

- Automated rotation of Amazon RDS database passwords, ensuring company compliance and streamlining developer workflows for 14 engineers
- Conducted system testing using SonarQube to identify exposed API keys, poor coding practices, and security vulnerabilities. Implemented an automated email reporting system to alert the team of severe issues
- Streamlined CI/CD pipeline to build, test, and deploy five repositories using Docker and Gitlab, reducing deployment time by 30%

PROJECTS

Slugswap | React Native, Firebase

Jan 2023

- Achieved first place out of 87 teams for UX/UI design, designing a React Native food-delivery app that allows college students to donate surplus food
- Implemented state management with Jotai, authentication with Firebase, and consistent UI with Nativebase, resulting in an improved user experience
- Conducted user testing with four clients over two days, resulting in identification of three usability issues

Remedia | Python, Flask, React Native, Firebase

Jan 2022

- Designed a mobile application that informs clients on when to use a certain drug based on the image taken, winning second place out of 46 teams for health-based software
- Created a web scraper in python to extract relevant data from over 6,000 drugs and provide a detailed description of the use case of the drug and its side effects
- Implemented Google's text detection API to extract the name of a drug from an image of a prescription bottle

RecycleMe | Python, Flask, React Native, Firebase

Sep 2021 – Apr 2022

- Programmed a mobile application in Python and React Native that determines the recyclability of an item based on a picture taken by a client
- Developed an image-based ML model that segments and categorizes items by image with a 63% accuracy using the TACO dataset
- Created a CI/CD pipeline to automatically push new features to our backend system with Google cloud run

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript (ES5 and ES6), Python, HTML5, CSS3, React, React Native, Spring Boot

Developer Tools: Git, Docker, Google Cloud Platform, AWS, Agile Methodology, VS Code, VIM