Gaurav Rajesh Makasare

Los Angeles, California | 213-551-4535 | makasare@usc.edu | LinkedIn | Github | Portfolio

EDUCATION

- **University of Southern California,** Los Angeles, CA.   **Aug 2021-May 2023**
  Master of Science in Computer Science   GPA 3.51/4
  (Relevant Coursework: Algorithms, Database Systems, Web Technologies, ML for DS)

- **University of Mumbai,** Maharashtra, India.   **Aug 2016-Nov 2020**
  Bachelor of Engineering in Computer Engineering   CGPA 9.42 /10
  (Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Dist. Computing)

WORK EXPERIENCE

Teaching Assistant - University of Southern California   **Aug 2022-Present**
- Tutored and guided 46 students of Blockchain: Decentralized Application (ITP 356) course for the Information Technology Program Department.

Course Producer - University of Southern California   **Jan 2022-May 2022**
- Served department of Information Technology Program by grading and assisting 36 students in Blockchain: Decentralized Application (ITP 356) course.

LEADERSHIP

Mentor - University of Southern California   **Aug 2022-Dec 2022**
- Counseled 3 new graduate students under the Viterbi Graduate Mentorship Program to provide facilitation mentorship via weekly meetings.

PROJECTS

Search Engine Correlation Analysis   **Jan 2023-Feb 2023**
- Extracted top 10 resulting urls for 100 test queries from DuckDuckGo search engine.
- Analyzed correlation between results from DuckDuckGo and Google's results using the Spearman's rank correlation coefficient (Technology: **Python, BeautifulSoup**)

Video Analysis   **Nov 2022-Dec 2022**
- Generated a panorama of background contents with foreground elements removed using OpenCV.
- Recreated the same video by removing one of its foreground objects while keeping the background same using block based motion estimation (Technology: **Java, Python, OpenCV**).

Team Generator Application   **June 2022-July 2022**
- Developed a team generator application using AngularJS which equally distributes employees randomly into 2 or more teams and can be beneficial for teaming people in any organization.
- Containerized this application using Docker (Technology: **Angular, Docker, Typescript**).

Discord Chat Application Clone   **Jan 2021-Feb 2021**
- Pioneered a group chat app for 2 or more concurrent users with ReactJs and React-Redux.
- Designed its backend on Google Firestore and fashioned a consumer authentication system through Firebase's authentication feature (Technology: **React Js, Google Firebase, Javascript**).

Contactless Attendance System   **July 2020-Aug 2020**
- Led a team of 3 people to conceptualize an android application that can record attendance on Cloud Firestore eliminating a need to utilize biometric systems.
- Tailored it towards the then ongoing covid scenario and led to a 100 percent elimination of the need for any form of physical contact (Technology: **Android Studio, Cloud Firestore, Java**).

CERTIFICATIONS

- **AWS Cloud Quest**: Cloud Practitioner   **Mar 2023-Apr 2023**
- **Coursera**: Data Visualization with Python, Blockchain Basics   **May 2020-Aug 2020**

TECHNICAL SKILLS

Languages: Go, Python, Java, C, C++, C#, Javascript, Typescript, SQL, HTML, CSS
Tech-stack: MERN, Angular, Docker, Kubernetes, Nginx, REST, AWS, Android Studio, Blockchain, Django, Flask, Tensorflow, NoSql, Git, Linux, Unity, MySql, MongoDB, SQlite