

Gaurav Rajesh Makasare

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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 search queries from DuckDuckGo search engine.
 - Analyzed the correlation between results from DuckDuckGo and Google's search 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 the foreground objects and 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 that equally distributes employees randomly into 2 or more teams and can be used 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 the backend on Google Firestore and fashioned the consumer authentication 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 the need to utilize a biometric system.
 - Tailored this project 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

- Coursera - Data Visualization with Python, Using Tensorflow with Amazon Sagemaker, Blockchain basics (3 Certificates). **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