

# 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 3.54/4  
(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* GPA 3.81 /4  
(Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Dist. Computing)

## WORK EXPERIENCE

- University of Southern California** **Los Angeles, California**  
**Teaching Assistant** **Aug 2022-May 2023**
- Tutored and guided 46 students of Blockchain: Decentralized Application (ITP 356) course
  - Held weekly office hours for solving programming and conceptual doubts leading to better subject understanding and skill development.
  - Coordinated with the professor, the teaching assistant team of 3 and students with timely feedback on student performance.
- Course Producer** **Jan 2022-May 2022**
- Graded assignments and tests of 36 students in Blockchain: Decentralized Application (ITP 356) course.
  - Conducted 2 office hours each week to provide individualized support and assistance to students.
  - Responded to student inquiries and provided clarification on course materials and assignments to promote understanding and success.
- Eiosys Pvt Ltd** **Navi Mumbai, India**  
**Software Development Intern** **Sep 2019-Mar 2020**
- Actualized a project for enhancing image quality for ecommerce products using Python and OpenCV.
  - Collaborated with a team of 3 to implement the Gaussian mixture model for image foreground and background segmentation.
  - Implemented Google's Neural Image Assessment algorithm (NIMA) for generating a feedback rating on images between 1 to 10 for testing the quality of results produced.
  - 60 % improvement was observed in the image quality.

## TECHNICAL SKILLS

**Languages:** Go, Python, Java, C, C++, C#, Javascript, Typescript, SQL, HTML, CSS

**Tech-stack:** React Js, Express Js, Node Js, Angular, Docker, Kubernetes, Nginx, REST, AWS, .NET, Android Studio, Flutter, Blockchain, Django, Pandas, NoSql, Git, Linux, Unity, MySql, MongoDB, Sqlite

## PROJECTS

- Youtube Data Collector Using ChatGPT** **Mar 2023-Apr 2023**
- Pioneered a web application to summarize and write a review of less than 3000 characters, for any youtube video, eliminating the need to view the entire video and still get an idea about it.
  - Collected the data in a MongoDB Atlas cluster, which can further be used for data analytics and video categorization (Technology: **ChatGPT API, React Js, MongoDB Atlas**)
- Search Engine Correlation Analysis** **Jan 2023-Feb 2023**
- Extracted top 10 resulting urls for 100 test queries from DuckDuckGo search engine.
  - Analyzed correlation between 1000 results from DuckDuckGo and Google each, using the Spearman's rank correlation coefficient (Technology: **Python, BeautifulSoup**).
- Discord Chat Application Clone** **Jan 2021-Feb 2021**
- Developed 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**).

## CERTIFICATIONS

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