

HARSHA VARDHAN CHARAGONDLA

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EDUCATION

University of Southern California, Los Angeles, USA

Aug 2021-May 2023

Master of Science, Computer Science

Courses: Analysis of Algorithms, Database Systems, Web Technologies, Machine Learning

CMR College of Engineering & Technology, Hyderabad, India

Aug 2016-Sep 2020

Bachelor of Technology, Computer Science & Engineering

GPA: 3.8/4.0

SKILLS

- **Programming Languages:** Python, C++, Java, C
- **Database Technologies:** SQL, Oracle, MongoDB, PostgreSQL
- **Web Technologies:** HTML, CSS, JavaScript, ReactJS, NodeJS, AngularJS
- **Tools and Libraries:** Docker, NumPy, Pandas, Matplotlib, Seaborn, SVN, AWS, Git, Bash.

WORK EXPERIENCE

Netcracker Technology, Hyderabad, India

Nov 2020-Jul 2021

Junior Software Engineer

- Worked as a **Junior Developer** in multinational telecommunications projects like Ooredoo and British Telecom.
- Collaborated with the ICE (International Centre of Expertise) custom team of 9 members to provide defect path resolutions for high priority issues.
- Implemented and deployed change requests and code enhancements to the existing solutions which optimized the performance of product by 20%.
- Technologies used - C++, SQL, PL/SQL, Python, Bash.

PROJECTS

Personal Book Management

Dec 2022-Feb 2022

- Developed a book management web application identical to amazon kindle.
- Implemented frontend of the application by utilizing technologies and frameworks such as ReactJS, HTML, CSS.
- Implemented backend server of the application by utilizing MongoDB database, with NodeJS and ExpressJS for REST APIs.

Feature Detection through Energy Audits

Jan 2020-Apr 2020

- Calculated and performed extensive analysis to enhance the way appliances consume energy and achieve energy conservation.
- Trained machine learning models like KNN, Naïve Bayes Classifier and Decision Trees.
- Generated Classification reports and Confusion matrix for accuracy.

Result Analysis and Prediction

Aug 2019-Oct 2019

- Performed result analysis of students data to improve students performance and to produce a detailed report using report lab tools.
- Trained and obtained results using a Multivariate regression model.

Blood Mobi

Sept 2018-Oct 2018

- Lead a team of four people to plan and execute the project in Smart India Hackathon 2018.
- Created an android application that connects blood donors and receivers in a particular location.
- Qualified to be as one of the final 10 teams out of 40 teams participated.

LEADERSHIP & INVOLVEMENT

Course Grader, USC, Los Angeles, CA, USA

Jan 2022-Present

- Responsible for grading quizzes, homework, midterms, and final exams of CSCI 585 Database Systems.
- Hold office hours to respond to student's questions regarding the concepts explained during the lecture.
- Respond to the queries on Piazza, which is an online intuitive platform for instructors to efficiently manage class Q&A and to simulate real class discussion.

Student Coordinator, CMRCET, Hyderabad, India

Jan 2019-Nov 2019

- Conducted training sessions of coding for 30 juniors through coding club.
- Scheduled sessions every weekend so that they can discuss with their fellow peers which helped in raising their coding standards.

Student Organizer, Azura fest, CMRCET, Hyderabad, India

Dec 2018

- Organized and managed a technical event in the college fest which involves multiple levels of coding tests for 200 students.
- Presented prizes to the top 3 winners and other stuff for all the participants as a token of participation and encouragement.