

Madhusudhan Sharma

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EDUCATION

University of California Irvine

Irvine, CA Present - Spring 2023 (*Expected*)

Donald Bren School of Information and Computer Sciences – Computer Science, GPA: 4.0/4.0

- **Relevant Coursework:** Python Programming and Libraries (Accelerated), Boolean Algebra & Logic, Linear Algebra, Discrete Math
- **Activities & Societies:** Commit the Change, Association of Computing Machinery, Information & Computer Sciences Student Council

International Baccalaureate Graduate at Plano East Senior High School

Plano, TX 2017 - 2021

- **Relevant Coursework:** Higher Level (HL) Computer Science, HL Mathematics Analysis and Approaches, Theory of Knowledge
- Developed GPA Application to calculate weighted and unweighted GPA and predict final exam scores required to raise GPA. Helped students better understand the calculations behind a final GPA
- Planned and hosted a free three-day introductory Java camp over winter break to 45 students. Taught students basic problem-solving principles

PROFESSIONAL EXPERIENCE

Commit the Change

Irvine, CA Oct 2021- Present

Full-Stack Developer

- Currently working with Abound Food Care to reduce food waste and insecurity by creating a digital registration system to better connect their volunteers and engage them in organizational events
- Assess problems, develop, and maintain high quality software for non-profit organizations to help increase productivity and save time

Delta System & Software, Inc.

McKinney, TX June 2020 – August 2021

Junior Software Developer

- Architected and programmed a prototype ticketing system to manage customer service requests for the human resources department which resulted in an increase in productivity
- Performed responsibilities assigned by my manager for organizational purposes

iCode

Plano, TX Feb 2019 – August 2021

Technical Lead & Lab Mentor

- Bridged technical concepts of Computer Science to non-technical children ages 5-12 in both weekly classes and summer camps. Improved children's ability to think critically and solve problems
- Marketed class openings to parents leading to an increase in registered students

SELECTED AWARDS & PROJECTS

2020 Hack Rice X

- 2nd Place Overall Project at Rice University and 1st Place from the Data to Knowledge Lab at Rice University
- Used machine learning to create an Android application to detect healthy and Retinopathic eye images with a feature to share results with a doctor
- Presented project to students at the IB World School at Huffman Elementary to help them understand the application of innovating in society

FaceAnalyzer

- Created a web application to analyze a students' face, provide real-time statistics of mood and attention, and play an audio cue if the student is distracted for too long. Improves student productivity levels

SKILLS & INTERESTS

- **Languages:** Python, JavaScript, Java, C++, SQL, HTML/CSS, LaTeX
- **Frameworks:** PostgreSQL/Express/React/Node, Android Studio, TensorFlow, MongoDB
- **Skills:** Database Management, API, RDBMS, REST, CRUD, Machine Learning