

# Madhusudhan Sharma

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## EDUCATION

### University of California - Irvine

Bachelor of Science & Master of Science in Computer Science

Irvine, CA

Expected June 2025

- **GPA:** 3.80/4.0
- **Core Coursework:** Machine Learning & Data Mining, Introduction to Data Management, Data Structures & Algorithms, Algorithm Analysis and Design, Software Testing Analysis & Quality Assurance
- **Mathematics Coursework:** Linear Algebra, Discrete Mathematics, Statistical Analysis, Multivar-Calculus

## RELEVANT EXPERIENCE

### Amazon

Software Development Engineer Intern

Seattle, WA

2023 June – 2023 September

- Replacing a two-step process of adding content onto FireTV Channels involving product managers and developers with a single step, user-friendly service; saving an estimated 500 hours of time over the next 5 years with this portal
- Architected the full long-term solution involving decision-making about backend, frontend, and midtier service selections based on comprehensive pros and cons analysis; will enable future projects to be extended in the future

### Amazon

Software Development Engineer Intern

Seattle, WA

2022 June – 2022 September

- Accelerated promotion approval speed by 2400% by designing and developing features on an internal application to aid product leads across Amazon in planning and executing product discount promotions
- Took ownership of project through working directly with the customers and designers to identify areas for improvement, leading to an overall improvement of user experience in the final product
- Improved API logging to 100% coverage in methods to help developers better debug errors during development

### Bonsai

Co-Founder

Irvine, CA

2022 January – 2023 January

- Leveraging motion tracking technology to analyze and correct weightlifting technique to minimize injury
- Pioneered platform to ease “gymxiety” and build an inclusive community for new gym-goers by connecting users in their fitness journey to keep constant motivation
- Won \$6,000 in funding to assist building a startup while working alongside with staff at UCI

### Commit the Change

Technical Lead

Irvine, CA

2022 July - Present

- Migrated Cell Dogs Google Sheets spreadsheet to a website for employees to easily create, update, and find information regarding rehabilitation programs for over 300 dogs and 15 facilities across Orange County
- Steered strategic planning and execution of a year-long project, effectively managing a team of 12 people
- Implemented a digital registration system for Abound Food Care, enhancing engagement and participation for over 100 volunteers in various events through the use of React, Express, Node.js, and PostgreSQL

### Delta System & Software, Inc.

Software Developer

McKinney, TX

2020 June – 2021 August

- Innovated a prototype ticketing system for the Human Resources department, resulting in a significant productivity boost in handling customer service requests for hundreds of employees and clients
- Employed Excel for detailed analysis and evaluation of numerous resumes during recruitment events consisting of hundreds of interested applicants, facilitating efficient identification and tracking of suitable candidates

## PROJECTS

### RetnoScan

September 2019 – September 2019

- Developed an Android application using TensorFlow, CV2, and Java to detect healthy and Retinopathic eye images using your phone at with a feature to share results with a doctor during the COVID-19 pandemic
- Setup feature for monthly notifications through Firebase for the user to be reminded to check their eyes
- 2<sup>nd</sup> Place Overall Project and 1<sup>st</sup> Place from the Data to Knowledge Lab at Rice University Hackathon

## SKILLS & INTERESTS

- **Technical Languages and Skills:** Python, Java, C++, C#, SQL, HTML/CSS, JavaScript, TypeScript, React, Git, AWS, Agile, Low Level Programming (MIPS) , Operating Systems (Basics)
- **Technologies:** PostgreSQL, Android Studio, AWS, MongoDB, Apache Tomcat
- **Skills:** Database Management, API, RDBMS, REST, CRUD, Machine Learning, Object Oriented Programming