

Madhusudhan Sharma

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EDUCATION

University of California - Irvine

Bachelor of Science in Computer Science

Irvine, CA

Expected June 2024

- **GPA:** 3.80/4.0
- **Core Coursework:** Machine Learning & Data Mining, Algorithms for Probabilistic and Deterministic Graphical Models, Algorithm Analysis and Design, Software Testing Analysis & Quality Assurance
- **Mathematics Coursework:** Linear Algebra, Discrete Mathematics, Statistical Analysis, Calculus

RELEVANT EXPERIENCE

Amazon

Software Development Engineer Intern

Seattle, WA

2023 June – 2023 September

- Replaced a two-step process of adding content onto FireTV Channels involving product managers and developers with a single step, content management portal; saving an estimated 5000 hours over the next 5 years
- 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 product discount promotion approval speed by 2400% and saved over 6000 hours in 1 year by designing and developing features on an internal application for planning and executing discount promotions
- Took ownership of project through working directly with the finance team 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

- Leveraged 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

2021 October - Present

- Implementing portal for Feeding Pets of the Homeless for over 500 donation centers within North America and 5 admins to track pet food donations and easily access contact information; includes automated reminder system
- 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 multiple year-long projects, effectively managing teams of 15 people

Delta System & Software, Inc.

Junior 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 over 100 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
- 2nd Place Overall Project and 1st 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