

Aaryan Agrawal

(650) 272-0666 | aaagrwal@ucsd.edu | <https://aaryan.dev/>

EDUCATION

University of California, San Diego | B.S. in Data Science

Expected Graduation June 2024

- GPA: 3.9/4.0
- Coursework: Intro to Data Science, Data Structures & Algorithms, Calculus, Linear Algebra, Statistics, Discrete Math

WORK EXPERIENCE

Sift Science

July 2022 – September 2022

Software Engineering Intern | San Francisco, CA

- Built end-to-end data pipeline with Kafka, Flink, and BigTable to create ML features for fraud prevention
- Improved local JUnit testing suite using multiple embedded tools for full integration tests

Lockheed Martin Solar and Astrophysics Lab

September 2020 – July 2021

IRIS Data Analyst | Palo Alto, CA

- Developed sunspot detection algorithm and K-Means clustering for solar atmospheric conditions
- Generated comprehensive dataset of emission spectra to improve understanding of sun's active regions
- Presented work at the 2021 Hinode-14 / IRIS-11 Joint Science Meeting

Castlight Health

June 2020 – July 2020

Software Engineering Intern | San Francisco, CA

- Used topic modeling (LDA) to group and understand user survey comments
- Identified easily solvable common complaint, communicated with product managers
- Analyzed and graphed user search database to research trends and offer more specialized results

Castlight Health

July 2019 – August 2019

Software Engineering Intern | San Francisco, CA

- Employed open-source tools to generate relational diagrams of large database environments
- Deployed Bash scripts to re-generate and host diagrams on schema changes
- Implemented Python and SQL tooling to automatically fetch and graph monitoring routines

EXTRACURRICULARS

Yonder Dynamics

September 2021 – Present

Software Co-Lead | La Jolla, CA

- Competed in NASA University Rover Competition, 7th place worldwide out of 100+ teams
- Designed and simulated obstacle avoidance algorithm using stereo cameras with ROS Gazebo
- Developed offline map with GPS integration on front-end React website and communicated to rover
- Trained YOLOv4 neural network for long-distance lighting-agnostic AR tag detection

PROJECTS

GMK Price Tracker (<https://gmk.aaryan.dev/> | [Source](#))

Summer 2021

- Scraped GMK keycap aftermarket prices from Reddit posts and uploaded data to Firebase
- Built React website to dynamically show various product prices over time

SKILLS

Languages: Python, Java, HTML/CSS/JavaScript, SQL, NoSQL

Tools: Git, pandas, Matplotlib, OpenCV, scikit-learn, TensorFlow, Kafka, Flink, GCP, React