

Aaryan Agrawal

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Work Experience	Lockheed Martin Solar & Astrophysics Laboratory, Palo Alto, CA IRIS Data Analyst <ul style="list-style-type: none">Worked with data from the Interface Region Imaging Spectrograph (IRIS) satelliteDeveloped algorithm for masking sunspot regions and clustering themGenerated comprehensive dataset of sunspot atmospheres and magnetic fields	September 2020 - July 2021
	Castlight Health, San Francisco, CA Engineering Intern <ul style="list-style-type: none">Used topic modeling (LDA) to group and understand comments from user surveysIdentified common complaint (30% of responses) that was easily solvableAnalyzed and graphed user search database to find trends and improve results	Summer 2020
	Engineering Intern <ul style="list-style-type: none">Used open-source tools to generate relational diagrams of databases; provided web interface that any engineer could accessImplemented Python tooling to automatically fetch and graph monitoring routines	Summer 2019
Projects	GMK Price Tracker (https://gmk.aaryan.dev) <ul style="list-style-type: none">Scraped GMK keycap aftermarket prices from Reddit posts and uploaded data to FirebaseBuilt React website to dynamically show product prices over time	Summer 2021
	Labyrinth Escape (https://maze.aaryan.dev) <ul style="list-style-type: none">Created peer-to-peer online multiplayer game where players attempt to escape a maze while being hunted by another playerUsed PeerJS for communication and p5.js for game drawing	Summer 2020
Education	University of California, San Diego B.S. in Computer Science	Expected Graduation June 2025
Expected Coursework	Introductory Computer Science, Data Structures & Algorithms Multivariable Calculus, Linear Algebra	
	Gunn High School, Palo Alto, CA Unweighted GPA: 4.0; Weighted GPA: 4.4	August 2017 – June 2021
Relevant Coursework	AP Computer Science A, AP Calculus BC Engineering Technology	
Extracurricular Activities	Gunn Robotics Team Controls Subgroup <ul style="list-style-type: none">Spearheaded computer vision initiative, created entire OpenCV processing pipelineTrained convolution neural network to track balls on field and autonomously move to themPrepared and delivered electronics lessons to new members	Fall 2019 – June 2021
	Gunn Cryptology Club Vice President <ul style="list-style-type: none">Co-organized and publicized Great Cipher Challenge, a national cryptology competitionDeveloped website and backend, including scoring system and leaderboard	Fall 2019 – June 2021
Skills	<ul style="list-style-type: none">Python, Java, JavaScript, SQLData analysis, web scraping, machine learning, neural networksNumPy, Pandas, Matplotlib, OpenCV, scikit-learn, Gensim, Git, Linux	