

Aaryan Agrawal

650.272.0666 (cell) | <https://aaryan.dev> | aaryan@aaryan.dev

Profile	Motivated high school senior with experience in engineering and computer science. Collaborative and reliable. Able to learn and adapt to any environment.			
Skills & Abilities	<ul style="list-style-type: none">• Communication, public speaking, organization• Python, Java, JavaScript, SQL• Data analysis, machine learning, neural networks• Vision processing, OpenCV			
Work Experience	Lockheed Martin Solar & Astrophysics Laboratory, Palo Alto, CA	January 2021 - Present		
	IRIS Data Analyst			
	<ul style="list-style-type: none">• Worked with data from Interface Region Imaging Spectrograph satellite• Developed K-means clustering algorithm for sunspot emission spectra			
	Castlight Health, San Francisco, CA			
	Engineering Intern	Summer 2020		
	<ul style="list-style-type: none">• Used topic modeling (LDA) to group and understand comments from user surveys• Analyzed and graphed user search database to find trends and improve results			
	Engineering Intern	Summer 2019		
	<ul style="list-style-type: none">• Used open-source tools to generate relational diagrams of databases; provided web interface that any engineer could access• Implemented Python tooling to automatically fetch and graph monitoring routines			
	Education	Gunn High School, Palo Alto, CA		
		Expected Graduation: June 2021 Unweighted GPA: 4.0; Weighted GPA: 4.3		
Relevant Coursework	AP Computer Science A Engineering Technology (Gunn Robotics Team) AP Chemistry, AP Physics C, AP Calculus BC			
Extracurricular Activities	Gunn Robotics Team, Palo Alto, CA	Fall 2019 – Present		
	Controls Subgroup			
	<ul style="list-style-type: none">• Wired all electrical components and CAN bus• Created entire OpenCV vision processing pipeline• Trained convolution neural network to track balls on field and autonomously move to them• Contributed to main open-source robot codebase			
	Gunn Badminton Team	Spring 2018 – Present		
	Varsity			
	<ul style="list-style-type: none">• Participated in 14 matches / year in highest Bay Area team division			
	Gunn Cryptology Club	Fall 2019 – Present		
	Vice President			
	<ul style="list-style-type: none">• Developed website for hosting large cryptology competition• Publicized competition through social media and school officials			
	Wave Learning Festival	Fall 2020		
	Teacher			
	<ul style="list-style-type: none">• Created and taught Data Analysis with Python class• Made Jupyter notebooks for every class session for full interactivity			