

Kevin TANG

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🎓 EDUCATION

August 2016 May 2020	University of California, Berkeley B.A. Computer Science, B.A. Astrophysics <ul style="list-style-type: none">> Coursework <u>CS</u>: Algorithms, Data Structures, Machine Learning, Discrete Math and Probability Theory, Computer Architecture, Linear Algebra> Coursework <u>Astrophysics</u>: Quantum Mechanics, Electromagnetism, Mechanics, Special Relativity, Thermodynamics, Cosmology, Multivariate Calculus, Linear Algebra, Data Science Lab
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👜 EXPERIENCE

Summer 2019	Incoming Software Systems Assurance Intern, THE AEROSPACE CORPORATION, El Segundo, CA
Present August 2017	Undergraduate Researcher, UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA <ul style="list-style-type: none">> Developing a CNN model that will classify possible supernovae candidates by identifying common features in exposures in order to expedite the process of manually selecting them.> Creating a Python application that cleans and analyzes supernovae spectra features to relate the speed of emitted white dwarf shells with the time the supernovae first occurred. <div>Python Numpy PyTorch SciPy Bash</div>
May 2017 August 2017	WFIRST Exoplanet Project Intern, NASA JET PROPULSION LABORATORY, Pasadena, CA <ul style="list-style-type: none">> Created a method to optimize observation sequences by creating distributions of star features in order to prioritize stars with a high likelihood of having "good" exoplanets. <div>MATLAB Excel</div>

🔧 EXTRACURRICULARS

Present January 2019	CS61B Junior Mentor, COMPUTER SCIENCE MENTORS, Berkeley, CA <ul style="list-style-type: none">> Lead small sections of undergraduates teaching Java, data structures, and algorithms. <div>Java IntelliJ</div>
Present August 2017	Project Engineer, SPACE TECHNOLOGIES AT CAL (STAC), Berkeley, CA <ul style="list-style-type: none">> Successfully created Arduino flight actuation system and STM based PCB for high altitude balloon projects testing NASA biological payloads reaching near space conditions. <div>C Arduino/AVR STM KiCad Eagle SolidWorks Python Excel</div>

💻 PROJECTS

GALAXY MORPHOLOGICAL FEATURE PREDICTOR Created a CNN model designed to predict the probability of a galaxy image having certain features (spiral arms, bulge, bars). <div>Python PyTorch Numpy</div>	APRIL 2019
IRIDIUM SATELLITE RECEIVER Created a web app to receive and parse post requests from the Iridium Satellite network to get coordinates and sensor data from projects being flown in the air. <div>JavaScript Node.js Express MongoDB HTML CSS Postman</div>	DECEMBER 2018
MOUNTAIN MOVER Arcade style game with random world generation, interactive environment, self-pathing NPC enemies, and load/save feature. <div>Java IntelliJ</div>	MARCH 2018

☰ SKILLS

Programming	Python, Java, C, SQL, JavaScript, Go, RISC-V, MATLAB
Frameworks	Python (numpy, pandas, pytorch, sklearn, scipy), React.js, Node.js, Express
Software/Computer	Unix, git, MongoDB, HTML, CSS, SolidWorks, AVR, KiCad, DS9, Excel, Illustrator, Photoshop
Other	Eagle Scout, Mandarin proficiency, soldering, 3-D printing, picks great Slack reacts