Kevin **Tang**

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Education

August 2016 – May 2020 | **University of California, Berkeley**
B.A. Computer Science, B.A. Astrophysics
- Coursework CS : Algorithms, Data Structures, Machine Learning, Discrete Math and Probability Theory, Computer Architecture, Linear Algebra
- Coursework Astrophysics : Quantum Mechanics, Electromagnetism, Mechanics, Special Relativity, Thermodynamics, Cosmology, Multivariate Calculus, Linear Algebra, Data Science Lab

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**
- 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.

Python | Numpy | PyTorch | SciPy | Bash

May 2017 – August 2017 | **WFIRST Exoplanet Project Intern, NASA Jet Propulsion Laboratory, Pasadena, CA**
- 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.

MATLAB | Excel

Extracurriculars

Present – January 2019 | **CS61B Junior Mentor, Computer Science Mentors, Berkeley, CA**
- Lead small sections of undergraduates teaching Java, data structures, and algorithms.

Java | IntelliJ

Present – August 2017 | **Project Engineer, Space Technologies at Cal (STAC), Berkeley, CA**
- Successfully created Arduino flight actuation system and STM based PCB for high altitude balloon projects testing NASA biological payloads reaching near space conditions.

C | Arduino/AVR | STM | KiCad | Eagle | SolidWorks | Python | Excel

Projects

Galaxy Morphological Feature Predictor — April 2019
Created a CNN model designed to predict the probability of a galaxy image having certain features (spiral arms, bulge, bars).
Python | PyTorch | Numpy

Iridium Satellite Receiver — December 2018
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.
JavaScript | Node.js | Express | MongoDB | HTML | CSS | Postman

Mountain Mover — March 2018
Arcade style game with random world generation, interactive environment, self-pathing NPC enemies, and load/save feature.
Java | IntelliJ

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