

# RYAN GAO

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## SUMMARY

Programmer with a background in Astrophysics and experience in data processing seeking entry into the software and data industries. Familiar with a diversity of software tools including several programming languages; skilled in empirical research, analysis, and informational writing. Passionate about ethical applications of data science and evidence-based approaches to solving problems.

## SKILLS

- Programming Languages: Python, Javascript, HTML/CSS, SQL, C#
- MERN App Framework / React Native
- MySQL, MSSQL, Firebase, MongoDB, Entity
- Multi-variable calculus, linear algebra
- Statistical Regression & Techniques
- Jupyter Notebook
- Data assessment & analysis
- R and RStudio
- Informative writing, consolidate information
- Languages: English (primary), Mandarin (semi-fluent)

## EXPERIENCE

05/2016 to 08/2016

### Research Intern

**Berkeley SETI** — Berkeley, CA

Berkeley SETI focuses on researching the existence of extraterrestrial life. The Breakthrough Listen program under SETI aims to detect extraordinary radio signals and determines their characteristics and origin. My research internship focused on signal processing methods using Python to filter out radio frequency interference (RFI) to clear signals that originated from our radio-heavy modern world. My work is saved in Jupyter notebooks as a learning tool for future interns and astronomy students.

## EDUCATION AND TRAINING

2019

**Certificate:** Data Science

**Massachusetts Institute of Technology Online (MITx)** — Online

Online certificate program offered by edX through four MIT courses: Probability, Data Analysis in Social Science, Statistics, Machine Learning with Python. Currently enrolled and completed two courses.

**Certificate:** Programming

**University of California - Los Angeles Extension** — Los Angeles, CA

Full Stack front/back-end, focused on web development and touches on machine learning and algorithms.

Astrophysics

**University of California, Berkeley** — Berkeley, CA

Courses: Radio Astronomy Lab, Multi-variable Calculus, Linear Algebra &

Differential Equations, Electrodynamics, Quantum Mechanics, Thermal & Statistical Mechanics, Planetary Physics, Stellar Physics, Cosmology, Mathematical Methods for Physical Sciences

## **WEBSITES, PORTFOLIOS, PROFILES**

- Website & Github: [rgao.github.io/index.html](http://rgao.github.io/index.html) & [www.github.com/rgao](https://www.github.com/rgao)
- LinkedIn <https://www.linkedin.com/in/ryan-gao-46a4312b/>

## **ADDITIONAL INFORMATION**

- U.S. Citizen
- Flexible to work in West & East Coast, and other urban centers