RG

# 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

- Python, Javascript, HTML/CSS, SQL, C#
- MERN App Framework / React Native
- ASP.NET Core MVC Framework
- 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

**Research Intern** / Berkeley SETI - Berkeley, CA *05/2016 - 08/2016*

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

Massachusetts Institute of Technology Online (MITx) - Online *Expected in 12/2019*
**Certificate**: Data Science
Probability, Data Analysis in Social Science, Statistics, Machine Learning with Python. Program near completion

University of California - Los Angeles Extension - Los Angeles, CA
**Certificate**: Full Stack Development
Front end, back end, databases, algorithms

University of California, Berkeley - Berkeley, CA
Astrophysics
Linear Algebra, Multivariable Calculus, Radio Astronomy Lab, Quantum Mechanics, Statistical/Thermal Mechanics, Electrodynamics, Stellar Physics

## WEBSITES, PORTFOLIOS, PROFILES

- https://www.linkedin.com/in/ryan-gao-46a4312b/
- https://github.com/rgao/