

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
- ASP.NET Core MVC Framework
- Databases: MySQL, MSSQL, Firebase, MongoDB, Entity
- Multi-variable calculus, linear algebra, & differential equations
- Signal Processing
- Jupyter Notebook
- Data assessment & analysis
- Scientific, empirical approaches to work
- Researching web information
- Writing scientific / literary reports; consolidating information
- Languages: English (primary), Mandarin (semi-fluent)

Experience

Research Intern

05/2016 to 08/2016

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

Certificate: Data Science

2019

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

2019

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

2016

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

- Github: 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