



# RYAN GAO

DATA ANALYST,  
DEVELOPER

## INTRO

Data analyst with an educational background in astrophysics and in software development seeking entry-level opportunities. Highly motivated and excited to apply my skills, from big-data image processing to full-stack web design to a suitable career. Los Angeles-based, geographically flexible.

## EDUCATION

Astrophysics, B.A.  
UC Berkeley, 2016

Data Science Micromaster  
Certificate  
MITx through edX, 2019

Full Stack Web Development  
Certificate, UCLA Ext., 2019

## CONTACT

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## SKILLS

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- Python, R, javascript
- ReactJS, HTML, CSS
- Node.js, Express, Sanic
- MongoDB, SQL
- Data Analysis / Visualization
- Docker, Github
- Math: Linear Algebra, Calculus
- Statistical Regression/Testing
- Signal Processing
- Machine Learning: Clustering/Imaging
- Informative Writing

## PROJECTS

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### Hack for LA

#### VOLUNTEER, CURRENT

- Data analysis & back-end development for 311-call data
  - Python/pandas, Jupyter Notebook, Docker, Sanic, ReactJS, javascript, postgresSQL, Git

### Astronomy, Big Data, & Signal Processing

#### 2014-2016

- Detecting nearby radio stations and cellphone transmission; signal data visualization (internship)
- Big-data astronomy signal processing, mathematical analysis, and geospatial analysis (undergraduate)

### Software & Web Development

#### 2019-Current

- New York Times article scraper & storage
  - MongoDB, ReactJS, Express, Node
- Local coffee shop website (HTML/CSS)
- Python course website (ReactJS, Jupyter Notebook)

## WORK

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### Research Intern

#### Summer 2016, Berkeley SETI

- Focused on signal processing methods using Python to filter out radio frequency interference (RFI).
  - Python/numpy, Jupyter notebook, GNU Radio, HackRF
- Work saved as Jupyter notebooks as a learning tool for future interns and astronomy students.

### Tutoring

#### 2018 - Current (Various)

- Subjects include GRE Math, Introduction to Programming, English
- 1-on-1 tutoring