



# RYAN GAO

DEVELOPER, DATA ANALYST

## SUMMARY

Developer and data analyst with an educational background in astrophysics seeking entry into the software and data industries. Extremely motivated to develop my career, expand my tech horizons, and put to use all the tools at my disposal. Los Angeles-based, geographically flexible.

## EDUCATION

Data Science Micromaster Certificate, MITx Online, 2019

UC Berkeley  
B. A., Astrophysics, 2016

Full Stack Development Certificate, UCLA Ext., 2019

## CONTACT

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## SKILLS

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

## EXPERIENCE / PROJECTS

### Hack for LA

VOLUNTEER, CURRENT

- Data analysis & visualization for 311-call data
- Python (+pandas/numpy), Docker, Sanic, ReactJS, javascript, PostgreSQL, git

### Other Projects

2016 - CURRENT

- Detecting nearby radio stations and cellphone transmission and visualizing the data (internship)
- Big data signal processing & visualization (astronomy - undergraduate)
- HTML/CSS: simple website for local coffee shop
- MERN app: web news scraper (boot camp)
- PERN app: reddit remake with PostgreSQL/ReactJS
- HTML/CSS: Solar System model visualization

### Berkeley SETI

RESEARCH INTERN, MAY 2016 - AUGUST 2016

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