

Ryan Gao

Data Analyst

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rgao.github.io

852-9346-5507

Data analyst with a strong foundation in math, science, and tech. Experienced with programming, web development, and data analysis. Adept at parsing information to identify inconsistencies and errors, and enthusiastic about AI and scientific literacy this age of volatile information.

Work Experience

Mathematics Tutor

Elite Education | Hong Kong

Sep 2024 - Oct 2025

- Subjects taught include: algebra, geometry, trigonometry, calculus, physics, and English writing
- Provided feedback and documented lessons after every session

Volunteer

Hack for LA | Los Angeles

Oct 2019 - Feb 2020

- Used python with pandas for ETL operations + data analysis, cleanup, and visualization on data from 311 calls
- Worked on front-end web development with React, learned containerization with Docker

Research Intern

Berkeley SETI | Berkeley, CA

May 2016 - Aug 2016

- Focused on detecting radio frequency interference and signal processing
- Used hardware to nearby radio signals, and a telescope to collect data from space
- Applied math, physics, and coding to programmatically process data and visualize the results
- Work was documented in jupyter notebooks as reference material for future interns/students

Core Skills

Academic: Algebra, Geometry, Trigonometry, Calculus, General Science, English Writing & Grammar

Personal: Great with instructional/written communication, Organized/good with documentation

Tech: Data Analysis/Visualization, Scientific Programming, Python, numpy, pandas, javascript, R, SQL/mongoDB, Docker, node.js, React.js, Excel, ETL operations

Education

Massachusetts Institute of Technology (MITx Online through edX)

Oct 2019

Micromaster Certificate: Data Science

Relevant Coursework: Statistics, Probability, Data Analysis with R, Machine Learning with Python

University of California, Los Angeles Extension (UCLAx)

Feb 2019

Certificate: Full-Stack Web Development

University of California, Berkeley

May 2016

Bachelor's Degree: Astrophysics

Relevant Coursework: Multivariable Calculus, Linear Algebra, Quantum Mechanics, Electrodynamics

Additional

- Languages: English (native), Mandarin (conversational)
- Work authorization: U.S. citizen; full authorization