

RYAN GAO

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SUMMARY

Aspiring programmer and data analyst with a strong background in math, English, programming, and science seeking entry into the professional tech world. As a current educator with an academic resume in science and technology, I am prepared and excited to transition my career and apply my skills.

SKILLS

- Math, up to multivariable calculus & linear algebra
- High English fluency; strong in written communication and reports
- Strong organization and documentation skills
- Microsoft Word, Excel, PowerPoint, LibreOffice
- Python, R, pandas, jupyter, Github, Dockerfile
- Full-Stack Web Design: javascript, HTML, CSS, ReactJS, NodeJS, SQL, MongoDB, Rust
- Data collection, analysis, and visualization
- Statistical analysis and visualization

RELEVANT EXPERIENCE

ELITE EDUCATIONAL INSTITUTE

Hong Kong, Hong Kong SAR

Teacher of Mathematics

09/2024 to Current

- Tutor students of various ages in math, English, and physics
- Prepare assignments, create presentations, and provide detailed feedback and assessments
- Organize documents, communicate shared material with colleagues, and document any material used

HACK FOR LA

Los Angeles, CA

Data/Software Volunteer

10/2019 to 03/2020

- Data analyst volunteer for a team working on processing data from 311-calls in the Los Angeles area
- Work included geospatial data collection, data visualization, and front-end design
- Applied clustering and other basic machine learning algorithms
- Used Github and Docker for workflow streamlining

BERKELEY SETI

Berkeley, CA

Research Intern

05/2016 to 08/2016

- Focused on signal processing and data analysis methods using Python to filter out radio frequency interference (RFI) from Earth-based sources
- Identified nearby radio stations and visualized sources of interference
- Worked with hardware, including a telescope, to collect data
- Used Jupyter notebook to document the process and result as resources for future students

EDUCATION AND TRAINING

CERTIFICATE: DATA SCIENCE

11/2019

Massachusetts Institute of Technology (MITx), Online

Probability, Statistics, Data Analysis, Machine Learning with Python

CERTIFICATE: FULL STACK WEB DEVELOPMENT

03/2019

University of California - Los Angeles Extension, Los Angeles, CA

HTML/CSS, javascript, ReactJS, SQL, MongoDB

BACHELOR OF ARTS: ASTROPHYSICS

05/2016

University of California, Berkeley, Berkeley, CA

Multivariable Calculus, Linear Algebra, Quantum Mechanics, Radio Astronomy Lab, Stellar Physics, Cosmology

PERSONAL

- Nationality: American
- Languages: English (fluent/native), Mandarin (colloquial)