

EDUCATION

Case Western Reserve University

Spring 2022

Bachelor of Arts with majors in Computer Science, Economics, & Philosophy

Minors: Artificial Intelligence & Political Science

GPA: 3.89 in major - *Dean's Honors List 2018-2022*

TECHNICAL SKILLS

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|--------------------|------------------|---------------------|
| • Machine Learning | • Data Analysis | • Java & Algorithms |
| • Python | • SQL | • R & Stata |
| • Scikit-learn | • Spark & Hadoop | • Tableau |

EXPERIENCE

CALIFORNIA HOUSING DEPARTMENT

June 2022 - March 2023

Data Science Consultant

- Developed novel algorithms to accurately calculate financial metrics using location, size, access, and other parcel data.
- Achieved 81% accuracy on an SVM ensemble to predict the likelihood of obtaining building permits on land parcels in Python (using Scikit-Learn).
- Substantially reduced overhead by automating parcel distribution decisions using PyXLL and Excel VBA.

CASE SCHOOL OF ENGINEERING

Dec. 2021 - May 2022

Research Lead

- Successfully secured funding by building a demo .NET image processing application to find key body points using Blazepose, Caffe, and OpenCV in Python.
- Led a new team to remodel the original work into a web application using HTML and JavaScript.
- Improved the robustness of the algorithm by 35% for off-center and obscure image angles.
- Reduced professors' workloads by providing on-demand Statics Engineering practice to students in over 80 engineering schools (available in portfolio).

WEATHERHEAD SCHOOL OF ECONOMICS

Aug. 2019 - May 2022

Teaching Assistant

- Facilitated student success and improved grades by coaching students in Data Analysis and Visualization through laboratory sections in R, Stata, and Python.
- Modernized course material by adapting my machine learning work to create a new project for Advanced Econometrics.
- Enriched the Public Finance lecture series by conducting a semester-long supervised independent study on Economic Philosophy. My final essay contribution was selected to become a new lecture.

CERTIFICATIONS

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|----------------------------------|-----------------------------|
| • Algorithms Certificate | AlgoExpert, Jan 2023 |
| • Data Analysis with SQL | Codecademy, Mar 2023 |
| • Tableau for Data Visualization | Codecademy, Jan 2023 |