

# ISAAC VERNON

STUDENT

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## EDUCATION

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### University of California, Berkeley

Aug. 2016 - May 2020

B.A. Data Science 2020

B.A. Economics 2020

B.A. Statistics 2020

GPA 3.619

Coursework: Data, Inference and Decisions, Probability, Statistics, Data Structures and Programming, Data Science, Macroeconomic Theory, Microeconomic Theory, Multivariate Calculus, Linear Algebra

## EMPLOYMENT

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### mlb.com, *Software Intern*, San Francisco, CA

June 2018 - Aug. 2019

- Developed new features and statistics in the API for use in services and on the website
- Collaborated with co-workers to initialize a new framework for code development for the ftp-transforms project
- Produced caching-enabled code to construct xml or json formatted extensions for deployment to the website from multiple API endpoints
- Generated new code processes in the API and fixed bugs to restore functionality

### Town of San Anselmo, *Referee*, San Anselmo, CA

Aug. 2012 - Current

- Senior referee for recreational soccer league ranging from 11 to 19 years old
- Instructed and enforced the rules of the game with players and coaches
- Collaborated with coaches, players, and other referees to provide a positive experience for the players

## SKILLS

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**PROGRAMMING LANGUAGES:** Python, Java, JavaScript, R, SQL, HTML

**TECHNOLOGIES:** Git, Jupyter, LaTeX, AWS

## PROJECTS

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### Pollution Co-Benefit Analysis

- Working with Professor Meredith Fowlie to enumerate and model co-benefits created from reduction in power plant emissions as part of the Undergraduate Research Apprenticeship Program
- Preparing data from raw EPA files and shaping an output table into the necessary configuration
- Simulating regional pollution-level changes due to pollutant-reductions and offsets using modeling based on atmospheric currents and pollution decay rates
- Using data science techniques of model design and selection to identify correlations and construct an optimal model for prediction

### Trump Twitter Analysis

- Implemented a process to draw relevant data from Twitter database through developer account and tools
- Transformed resulting data set through data cleaning processes and created applicable visuals for later analysis
- Analyzed trends in the data to determine differences between personal and campaign tweets