# Cao Jilin

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## EDUCATION

**University of California, Berkeley**                                    **Berkeley, CA**
*Bachelor of Arts in Statistics*                                            *May 2019*

## Key Skills

Programming Languages: Python, R, Java, P5

## Related Coursework

Deep Learning, Linear Programming and Network Flow, Linear Modeling, Machine Learning, Algorithms, Data Structure, Probability, Linear Algebra

## ACADEMIC PROJECTS

**Boston Housing | R**                                                    *Sep 2018 - Nov 2018*
- A systematic data analysis using linear model. Predicting the Value of a Boston Home Using Neighborhood Features. Started by doing EDA, then performing diagnostics: used various model selection techniques such as AIC, BIC, Cross-Validation etc. and removed outliers to improve the model.

**Digits classification and Language Identification | Python**            *Feb 2018 – May 2018*
- Implemented neural network models, using gradient descent to optimize loss function and other techniques to improve the model performance.

**BearMaps | Java**                                                        *Jan 2018 – May 2018*
- Programmed the back-end of a web mapping application of Berkeley, CA that supported features such as image rastering at different zoom levels, autocomplete location search, and route mapping

## EXPERIENCE

**Data Analyst Intern**                                                    **HangZhou, China**
*State Grid Corporation*                                                    *June 2017 - July 2017*
- Analyzed how the power usage distributed in different areas in a city and how the price of electricity relates to the population of the city and other factors. Helped company to decide the location of installing new equipment. Presented a visualization report to the company manager

**Lab Assistant for CS 61B**                                              **Berkeley, CA**
                                                                           *Sep 2018 - Now*
- Every week, I helped students understand the material covered in class and helped them work through their weekly labs and also worked at Office Hours.

**Lab Assistant for Stat 133**                                            **Berkeley, CA**
                                                                           *Sep 2018 - Now*
- I helped students in a lab with 30 students weekly and teach them how to use R to do data analysis

## AWARDS AND ACHIEVEMENTS

- 2018 Cal DataFest Team of Best Visualization
- Fluent in Chinese