

# Justin Han

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## SUMMARY

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Adept programmer who takes pride in building models and data analyses that translate raw numbers into business insights. Highly numerate and team-oriented problem solver with statistical modeling, computing and data visualization experience.

## EDUCATION

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### University of California, Berkeley

Berkeley, CA

*Bachelors in Statistics, Concentration in Computer Science and Economics*

*Graduated: May 2020*

- **Coursework:** Multivariable Calculus, Linear Algebra, Statistics, Discrete Mathematics & Probability Theory, Data Science, Structure and Interpretation of Computer Programs, Artificial Intelligence, Computational Data Analysis, Statistical Prediction & Machine Learning, Time Series, Linear Modeling

## SKILLS

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**Technical:** R, RMarkdown, SQL, Python, LaTeX, Git, MS Excel, MS PowerPoint, MS Word, Java, Tableau, Stata, HTML5, CSS, JavaScript, JIRA

**Other:** Data Visualization (i.e. ggplot2), Data Manipulation (i.e. dplyr), Data Mining/Cleaning/QA, Regression Analysis, Time Series Analysis, Hypothesis Testing, Pattern/Trend Identification, Quantitative Methods, Supervised/Unsupervised Learning Methods, Data Structures

## EXPERIENCE

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### Wells Fargo

San Francisco, CA

*Strategy & Analytics Intern*

*June 2019 – August 2019*

- Implemented a digital tool for mobile and desktop banking platforms, resulting in ~20% decrease in client wait times.
- Created a financial model that is projected to reduce 2020 quarterly costs for Agile development teams by ~7%.
- Developed KPIs to monitor internal operations and decreased software approval times by ~15%.

### UC Berkeley Graduate Department

Berkeley, CA

*Data Researcher/Project Assistant*

*October 2018 – May 2019*

- Collected and analyzed UC Berkeley's graduate student data through surveys issued across 2500+ departments and implemented data visualization techniques for publication.
- Managed and compiled a database of over 2,500 interdepartmental yearly graduates using LinkedIn, Excel, and SAS.
- Strengthened alumni relations by creating UC Berkeley's graduate school alumni networking system.

### HS2 Academy

Fremont, CA

*Data Analyst Intern*

*June 2017 – August 2017*

- Performed analysis (i.e. data wrangling, reshaping, tidying, visualization, etc.) on unclean data and generated reports for ads.
- Created decks for management to increase marketability with an expected client base growth of ~5% for the following year.

## EXTRACURRICULARS

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### CAL Actuarial League

Berkeley, CA

*Team Lead*

*January 2018 – Present*

- Built models in excel and demonstrated critical thinking through analyzing case studies provided by Beam Dental (Health & Benefits), CSAA Insurance Group (Property & Casualty), and Aon (Retirement).
- Placed 3<sup>rd</sup> out of 20+ teams in the Ninth Annual Actuarial Case Competition at UC Berkeley.

### Computer Science and Statistics Course Staff

Berkeley, CA

*Student Instructor/Lab Assistant*

*August 2018 – Present*

- Taught a small class about the concepts of statistical computing and the data analysis cycle using the R language.
- Helped students debug python/R code and recap important lecture topics (i.e. recursion, trees, data structures, algorithms, etc.).

## PROJECTS

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### Crime and Communities

- Implemented machine learning techniques such as regression analysis, PCA, CV, and data visualization methods in R to develop the best model (using MSE as a metric) to predict crimes using the "Crime and Communities" dataset provided by the UC Irvine.

### Stock Analysis

- Performed time series analysis in R on everyday commodities such as wheat (WEAT) and corn (CORN) using adjusted closing prices from the beginning of 2015 to September of 2019 provided by Yahoo Finance. Implemented various combinations of methods such as SARIMA, VST, trend, and seasonal analysis to arrive at a set of candidate models that best capture the underlying signal/noise. Predicted early 4<sup>th</sup> quarter trading prices using cross validation which led to the final model for prediction yielding an RMSE of about 0.49.