Brian Yang

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EDUCATION

University of California, Berkeley — **Berkeley, CA**
B.A. in Cognitive Science — Aug 2015 – May 2020
B.A. in Data Science with Human Psychology Concentration
Relevant Coursework:

- *Structure & Interpretation of Computer Programs*
- *Data Structures*
- *Computational Models of Cognition*
- *Principles & Techniques of Data Science*
- *Concepts of Probability*
- *Discrete Mathematics and Probability Theory*
- *Natural Language Processing*
- *Introduction to Artificial Intelligence*
- *Data Analytics & Mining*
- *Introduction to ML and Data Analytics*

PROFESSIONAL EXPERIENCE

Opportunities for All Fellowship — **San Francisco, CA**
Coding Instructor — June 2020 – July 2020

- Instructed high school students fundamental coding concepts and basic game design principles
- Guided small groups to remix and successfully complete games using MIT's Scratch platform

Haas School of Business, Center for Social Sector Leadership — **Berkeley, CA**
Frontend Web Developer — Aug 2018 – May 2020

- Created a student-mentor matching system that coordinated the Berkeley Board Fellow event with over 80 participants
- Addressed readability issues to improve traffic to the CSSL websites by 18%
- Revised 13 webpages to improve the overall navigation of the GSVC site to prepare for its 20th anniversary
- Redesigned outgoing newsletters using HTML and CSS to have consistent structure and appearance

West Big Data Innovation Hub — **Berkeley, CA**
Project Lead: Data Enabled Donations – Web Developer and Data Scientist — Jan 2019 – Jan 2020

- Developed a website that can manage and crowdsource the information on physical donations during emergencies
- Aimed to reduce 15% of all wasted donations by optimizing the distribution of goods
- Designed an inventory system that automatically populates itself to reduce workload for first responders
- Provided geographic visualizations of nearby donation hotspots to coordinate access to all relief efforts

Poke Parlor — **Berkeley, CA**
Shift Lead — Aug 2017 – May 2018

- Boosted the overall efficiency and flow of the environment while managing a diverse team
- Reinvented a system of inventory management that easily identifies ingredients low on stock
- Led a successful grand opening, during which the team served over 450 people in a single day

PROJECTS & AWARDS

To Rent, or To Airbnb — Dec 2019
Evaluate the financial profits and predict whether an SF homeowner should rent out the room or list it on Airbnb

- Merged several datasets from both Airbnb and Zillow to compile into a single, comprehensive one
- Improved results by incorporating feature engineering on the dataset and performing a grid search to find the best parameters
- Tried several models such as linear regression, gradient boosting, and random forests to minimize MSE

Airbnb New Listings' Price Prediction — Nov 2019 – Dec 2019
Predict the estimate cost of new Airbnb listings by comparing parameters of previously existing listings

- Preprocessed data using scikit-learn package's OneHotEncoder and LabelEncoder to change strings to numeric values
- Utilized different machine learning models, including random forest and KNN, to find the best-fit models

Social Health Scores for US Counties — May 2019 – Aug 2019
Calculate a relative score for an individual to consider before moving to a particular US county

- Researched variables, like crime rate and education, and assigned weights based on a small-scale survey for initial calculations
- Utilized Tableau in order to visualize findings on a heat map overlaid on a US map

Berkeley VR/AR Hacks – 2nd Place Overall — Nov 2017
Allow users to stroll through history to learn about a chosen era by interacting with key artifacts and figures

- Implemented hidden quiz systems to reinforce the learning of the materials in that particular session

Berkeley AR Hacks – 2nd Place Overall — Dec 2016
Allow users to conveniently purchase products, simply by pointing their smartphones via an AR shopping interface

- Incorporated a visual recognition software that used markers to identify and instantly offer product details

SKILLS & INTERESTS

Skills: Python. Java. R. HTML. CSS. JavaScript. SQL. Git. Microsoft Excel. Microsoft Office. Sketch. Adobe Photoshop.
Languages: Fluent in English and Korean. Conversational in Spanish and Chinese.
Interests: Origami. Lego. Backpacking. Baking. Cooking. Photography.