Brian Yang

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High workflow efficiency fosters an environment in which I can contribute directly towards my mission to offer products that enhance users' quality of life. My ability to see opportunities to minimize discord encourages me to optimize coded programs to find a solution that can benefit others. In this kind of environment, I appreciate the freedom to prototype creative web designs and to perfect my product to improve my clients' experiences.

EDUCATION

University of California, Berkeley Class of 2020
B.A. in Data Science with a focus on statistically analyzing big datasets to predict optimal solutions
B.A. in Cognitive Science focusing on bridging the gap between the human mind and technology

PROFESSIONAL EXPERIENCE

Opportunities for All Fellowship **San Francisco, CA**
Coding Instructor – Paid Remote Position June 2020 – July 2020
- Instructed groups of 20 high school students fundamental coding concepts and basic game design principles
- Encouraged students to practice Agile Scrum methodology to successfully complete games using MIT's Scratch platform

Haas School of Business, Center for Social Sector Leadership **Berkeley, CA**
Frontend Web Developer – Paid Work Study Aug 2018 – May 2020
- Addressed issues with SEO and accessibility using WordPress to improve traffic to the CSSL websites by 18%
- Redesigned and prototyped outgoing monthly newsletters using HTML and CSS to have consistent structure and appearance
- Applied advanced Excel functions to improve the existing student-mentor system for the BBF event with 80 participants
- Organized past archives by improving the naming convention and removing redundancies to optimize files searches

West Big Data Innovation Hub **Berkeley, CA**
Frontend Web Developer and Data Scientist – Unpaid Research Project Lead Jan 2019 – Jan 2020
- Developed a website with a submission form that can crowdsource information of physical donations during disaster situations
- Presented a geographic visualization of nearby donation hotspots and their current stocks to coordinate all relief efforts
- Designed an inventory system that automatically populates itself to reduce the first responder's responsibility
- Programmed a web scraper to mine data on financial donations from GoFundMe to study donation patterns

Poke Parlor **Berkeley, CA**
Shift Lead – Paid Position Aug 2017 – May 2018
- Created a system for inventory management using Excel to easily identify ingredients low on stock that require restocking
- Improved communication while managing a diverse team to boost the overall efficiency and flow of the environment
- Led a successful grand opening, during which the team served over 450 customers 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 using pandas to compile into a single, comprehensive one
- Incorporated feature engineering and performed a grid search to find the best parameters to improve prediction accuracy
- Minimized the MSE by using several machine learning models such as linear regression, gradient boosting, and random forests

Airbnb New Listings' Price Prediction Nov 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 convert strings to numeric values
- Evaluated the reviews for existing listings using VADER sentiment analysis to determine if the visitors had a positive experience
- 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 geographically visualize findings on a heat map overlaid on a US map

2017 Cal VR Hackathon – 2nd place of 17 teams Dec 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 a given session

Berkeley AR Hacks – 2nd place of 24 teams 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 details on the product

SKILLS & INTERESTS

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