**Christopher Wang**

2107 Harvest Moon Ln, San Ramon CA | chriswang019@gmail.com | (925)-822-4343

**Education**

**University of California, Berkeley Berkeley, CA**

*B.A in Computer Science and Statistics* | GPA: 3.68/4.00 *Expected May 2023*

* Relevant Coursework**:** Algorithms, Data Structures, Discrete Mathematics, Information Systems, Linear Algebra and Differential Equations, Multivariable Calculus, Probability Theory
* Clubs and Activities: Computer Science Mentors (CSM), Intramural Basketball

professional experience

**UC Berkeley EECS Department** *August 2020 – Present*

*Teaching Assistant*

* Teach weekly 2-hour discussion sections and labs for 20-30 students, host office hours, and provide personalized student support for CS 61A, the introductory algorithms course at UC Berkeley with over 2000 students
* Teaching topics include higher-order functions, recursion and recursive data structures, OOP, and REPL

**Juni Learning** *April 2020 – August 2020*

*Computer Science Instructor*

* Lead weekly private lessons to 12 students with a project-oriented curriculum emphasizing fundamental computing concepts such as inheritance, data structures, efficiency and “big O”, sorting algorithms, and object-oriented design
* Personalize curriculum to students’ progress and conduct check-ins to evaluate areas for curriculum improvemen­­t

**JP Morgan Chase & Co***February 2020* **–** *April 2020*

*SWE Virtual Experience Program*

* Utilized statistical analysis and price ratios to monitor, and assess the stock market to find undervalued stocks
* Assisted in implementing JP Morgan Chase’s open source code ­Perspective to help solve data visualization challenges

Projects

**Higgs Boson Research Project** *August 2020*

*Lawrence Berkeley National Laboratory*

* Assisted in particle physics research by implementing and fine-tuning maximum likelihood fit models to analyze datasets produced from large hadron collider for re-discovery of Higgs Boson elementary particle
* Produced plots and data visualizations of diphoton invariant mass distribution and transverse momentum

**Clothing Classifier** *June 2020*

* Developed neural network model to classify images of clothing into shirts, trousers, dresses, coats, and sneakers
* Utilized tensorflow to train and implement model with over 90 percent prediction accuracy on testing data

**Final Grade Predictor** *May 2020*

* Programmed linear regression model to predict student’s final grade based off past exams, attendance, and study time
* Model can predict final grade with high accuracy with a negligible mean error, and standard deviation of < 5 percent

**Stock Trading Bot** *March 2020*

* Built a trading bot through Alpaca Trading API pairs trading strategy to predict optimal buying and selling opportunities while accounting for daily volatility
* Implemented an email notification system which provides detailed email updates of daily trades to user

Programming experience ­­­

* **Languages:** Fluent in Python and Java; familiar with C++, C#, JavaScript, HTML, SQL
* **Frameworks/technologies:** Git, matplotlib, NumPy, pandas, sci-kit learn, tensorflow
* **Statistics/Machine Learning:** k-Means clustering, KNN, Linear and logistic regression, neural networks, regularization, SVM