**Christopher Wang**

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**Education**

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

*B.A in Computer Science and Statistics Expected May 2023*

* GPA: 3.60 | Relevant Coursework**:** Algorithms, Data Structures, Principles of Data Science, Probability Theory, Linear Algebra and Differential Equations, Information Systems

**Dougherty Valley High School San Ramon, CA**

*High School Diploma August 2015 – June 2019*

* GPA: 4.00/4.00 | Awards and Honors: National Honors Society, Scholar Athlete Award, Principal’s List Scholar, State Seal of Biliteracy, AP Scholar with Honor, CIF Scholar, California Scholarship Federation
* ACT: 35 | SAT II Math: 800 | SAT II Physics: 790

Experience and activities

**Computer Science Instructor – Juni Learning** *May 2020* **–** *Present*

* Teach weekly private lessons to 12 students with 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
* Serve as an ambassador by recruiting new students through trial lessons and assessing their skill level

**Teaching Assistant – Computer Science Mentors***January 2020 – Present*

* Direct weekly tutoring sessions of 4-6 students to ensure mastery of course material for CS 61A, the introductory algorithms course at UC Berkeley, and assist in office hours for students seeking additional help conceptual review
* Contribute towards lesson planning and provide educational materials, including weekly problem sets to students
* Teaching topics include higher-order functions, recursion and recursive data structures, OOP, and REPL

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

*Virtual Experience Program*

* Utilizes statistical analysis and price ratios to analyze, 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

**Image Classification** *June 2020*

* Built a program to classify images of clothing into shirts, trousers, pullover, dress, coat, sandal, shirt, sneaker, or bags
* Utilized tensorflow to train and implement neural network to create model with over 90 percent accuracy

**Stock Trading Bot** *May 2020**May 2020 – Present*

* Built an algorithmic trading bot through Alpaca Trading API utilizing statistical analysis (time-series momentum, simple moving averages, pairs trading) to find profitable trading opportunities while accounting for daily volatility
* Implemented an email notification system which provides detailed email updates of daily trades to user

**Gitlet** *April 2020*

* Designed and implemented a distributed-version control system using Java serialization and filesystem for persistence
* Implemented core Git functionalities: init, add, commit, rm, log, find, status, checkout, reset, branch, merge

**Lines of Action** *March 2020*

* Designed and implemented Lines of Action board game with graphical user interface and machine player
* Utilizes decision trees, and tree pruning, and heuristics to engineer an artificially intelligent machine player

Programming experience ­­­

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