

# Christopher Wang

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## EDUCATION

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### University of California, Berkeley

*B.A in Computer Science and Statistics*

**Berkeley, CA**

*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

*High School Diploma*

**San Ramon, CA**

*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

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### 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

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### 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*

- 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

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- **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