

Christopher Wang

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EDUCATION

University of California, Berkeley

B.A in Computer Science and Statistics

Berkeley, CA

Expected May 2023

- GPA: 3.60/4.00 | Relevant Coursework: Algorithms, Data Structures, Information Systems, Linear Algebra and Differential Equations, Probability Theory

Dougherty Valley High School

High School Diploma

San Ramon, CA

August 2015 – June 2019

- GPA: 4.00/4.00 | Awards and Honors: AP Scholar with Honor, CIF Scholar, National Honors Society, Principal's List Scholar, Scholar Athlete Award, State Seal of Biliteracy

PROFESSIONAL EXPERIENCE

Computer Science Instructor – Juni Learning

May 2020 – Present

- Teach 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
- 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

Clothing Classifier

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 a neural network with over 90 percent prediction accuracy on testing data

Final Grade Predictor

June 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

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

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