Christopher Wang

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EDUCATION

University of California, Berkeley **Berkeley, CA**
B.A in Computer Science and Statistics | GPA: 3.60/4.00 *Expected May 2023*

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

Dougherty Valley High School **San Ramon, CA**
High School Diploma | GPA: 4.00/4.00 *August 2015 – June 2019*

PROFESSIONAL EXPERIENCE

Lawrence Berkeley National Laboratory *July 2020 – Present*
Research Intern

- Assisted in particle physics research with focus on implementing maximum likelihood fit models for classification
- Analyzed and interpreted datasets from large hadron collider to produce plots and other data visualizations

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

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, NumPy, pandas, matplotlib, sci-kit learn, tensorflow, PyROOT
- **Statistics/Machine Learning:** k-Means clustering, KNN, Linear and logistic regression, neural networks, regularization, SVM