

Lucy Wan

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Education

- Intended Major: Computer Science | Intended Career: Artificial Intelligence Scientist

GRETCHEN A. WHITNEY HS | CLASS OF 2019

CERRITOS COLLEGE AND CYPRESS COLLEGE

- Combined GPA: 4.0
- Classes Taken: Linear Algebra, Calculus II, Introduction to Statistics, Abnormal Psychology, Human Sexuality, Introduction to Sociology, Freshman Composition

Computer Science Skills

DATA SCIENCE AND MACHINE LEARNING | DECEMBER 2017 - PRESENT

- Experienced with data analysis and visualization, machine learning and natural language processing
- Libraries: NumPy, Pandas, Seaborn, Matplotlib, Plotly, Sci-kit learn, NLTK

PROGRAMMING LANGUAGES AND OTHER SKILLS

- Python, Java, JavaScript, CSS and HTML
- Wordpress

PROJECTS

- “Titanic: Machine Learning from a Disaster”: participated in a competition on Kaggle (a data science competition website) where I predicted whether a passenger on the Titanic survived given a dataset (scored in the 33 percentile)
- “Housing Prices: Advanced Regression Techniques”: participated in a competition on Kaggle where I predicted the prices of houses in Ames Iowa from a given dataset (scored in the 75 percentile)
- Bulimia Nervosa Quiz: wrote a quiz in Java to test a person’s likelihood of having Bulimia Nervosa, an eating disorder.
- Device Failures: predicted using random forest classifiers which devices of trucks would fail using undersampling and oversampling techniques; had a recall score of 95%
- Uber Twitter Feeds: collected tweets from the TWEETPY API to conduct sentiment analysis on the name “Uber” using natural language processing and used the tweets collected to make word clouds
- Medical Company Recommender System: created a recommender system to recommend medical products to a customer depending on what product the customer buys.
- Created the website peer1on1.org for the organization, Peer1on1, using Wordpress, the website has had a total of 2,543 views and 855 visitors

PLEASE GO TO MY WEBSITE TO VIEW MY PROJECTS

Work Experience

MATH TUTOR | CERRITOS COLLEGE | AUGUST 2018 TO PRESENT

- Tutor Cerritos college students on math problems ranging from basic math to linear algebra or multivariable calculus
- Work two shifts a week as a walk-in tutor and one shift a week as a tutor for the AIME program (a special program which allows students to receive walk-in tutoring almost instantly)
- Work 13 hours a week three days a week and tutor about 60 students each shift as a walk-in tutor

Leadership

**CO-FOUNDER OF PEER1ON1 - A NONPROFIT ORGANIZATION | OCTOBER 2016 TO PRESENT |
ROLE: VICE PRESIDENT**

- Peer1on1- an organization which helps autistic individuals improve their social skills through interacting with high school volunteers
- Helped to found this organization with a mother of two autistic children
- My current role is to communicate with the director of Peer1on1 on what her needs are and then help the presidents to designate tasks to the rest of our cabinet members
- Peer1on1 has been able to help over 50 autistic individuals since it has started. It has also been nominated for the 2018 Annual Spotlight Award of the regional center of Orange County

Research Internships and Job Shadowing

DECISION MAKING PSYCHOLOGY | CAL STATE FULLERTON | MARCH 20, 2018 TO PRESENT

- Work under Dr. Birnbaum and a psychology graduate student
- Run computer programs, check to make sure that the outcomes are correct, and create spreadsheets for a gambling decision making software program
- Currently creating a calculator using HTML, CSS, and Javascript to measure transitivity for a form of gambling according to a theory by a UCI cognitive science graduate student

MACHINE LEARNING | CAL STATE FULLERTON | MAY 21, 2018 TO PRESENT

- Working under Professor Panangadan as well as a computer science graduate student to collect data from the API, tweepy, of tweets relating to traffic and store those tweets in a MongoDB database (using Python)
- Learned how to use the tweepy API and MongoDB

RESEARCH INTERNSHIP | MONARCH LABS | JUNE 2017 TO PRESENT

- Monarch Labs is a biotherapy company which sells Medical Maggots
- Helped my mentor with protocols, gathering maggots, and recording data for different experiments
- Was able to learn how to effectively carry out experiments

SHADOWER | CALIFORNIA ORTHOPEDIC AND MICRO SURGERY INSTITUTE| JUNE 2016 TO AUGUST 2016

- Shadowed surgeons as they gave patients checkups, consultations, and treatments

Volunteering

TUTORING | JANUARY 27, 2017 TO JUNE 2017

- Tutored a seventh-grade student with math an hour once a week

ECOEDUCATION | DECEMBER 2016 TO DECEMBER 2017

- Volunteered with other high school students from the Ecology and Wildlife Club to teach elementary school students about biology

TECHNIOR | DECEMBER 2016 TO DECEMBER 2017

- Answered questions about using technology such as cell phones and iPads from senior citizens and taught them new technological skills

Extracurriculars

CROSS COUNTRY AND TRACK AND FIELD| 2012 TO PRESENT

- Teams: Whitney High School Cross Country (2016, 2018), Whitney High School Track and Field (2017, 2019)

- Medals: Cross Country District Meet 2016 (6th place for JV), Rosemead Invitational 5K 2018 (47th place senior girls)

Honors, Awards, and Certificates

MASTERING APPLIED DATA SCIENCE CERTIFICATE | AUGUST 31, 2018 SCORED

- Attended the Mastering Applied Data Science bootcamp by the company, TheDevMasters and completed assigned projects

TASKS ESSENTIAL BIOTECH SKILLS WORKSHOP PARTICIPATION CERTIFICATE | APRIL 1, 2017

- Performed 7 hours of laboratory work for the Amgen Biotechnology Experience Program
- Tasks included pouring agar into petri dishes and aliquoting liquids
- Was able to learn about standard medical research lab procedures

Commented [LW1]: Should I add this to the volunteering section instead?