

CURTIS CHEN

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EDUCATION

University of California - Los Angeles

September 2021 - June 2025

Bachelor's, Computer Science

GPA: 3.873

- Relevant Courses: Algorithms, Data Structures, Software Construction, Computer Architecture, Operating Systems, Probability, Linear Algebra, Multivariable Calculus, Machine Learning, Data Science Currently Taking: AI, Databases

PROFESSIONAL EXPERIENCE

University of California - Los Angeles

Los Angeles, CA, USA

Tutoring Chair

September 2022 - Present

- Facilitate review sessions and practice nights for core CS classes in a large scale setting
- Coach UCLA students in data structures and algorithms, differential equations, and physics for Upsilon Pi Epsilon, the computer science honors society
- Helped students go through their homework in various subjects

Monterey Park Hospital

Monterey Park, CA, USA

Purchasing Department Assistant

July 2019 - July 2021

- Communicated with doctors and staff about inventory related questions and translated for Cantonese speakers
- Answered phone calls and assisted with scheduling complex issues that required appointments
- Performed software updates and routine maintenance on computers, printers, and copy machines (average 20 machines a week)

Escalante Math Program

Monterey Park, CA, USA

Teacher's Assistant

July 2019 - July 2021

- Coached 3 struggling students in precalculus and raised their test scores from C minus to A minus
- Instructed precalculus classes (average 22 students per class) as substitute for teacher

PROJECTS & OUTSIDE EXPERIENCE

Web App: Personal Fitness

React.js, CSS, HTML, Firebase

- Personal health web app that allows users to select customized workout plans and food recipes
- Allows users to make an account and upload their personal information to the server
- Search through database of workouts and recipes and sorts them based on user preference and personal information

Machine Learning: Online Comment Toxicity Categorization

Python, Tensorflow, Sklearn, Pandas, Numpy

- Uses neural networks to determine the toxicity of an online comment, which is put into these categories: toxic, severely toxic, obscene, threat, insult, and identity hate, and a 1 indicates that it is part of that category
- Processed Kaggle dataset with Pandas and used a vectorizer to convert the text into encodings of numbers
- Neural network had 4 hidden layers and reached an 71 percent accuracy rate

Machine Learning: Movie Review Sentiment

Python, Tensorflow, Sklearn, Pandas, Numpy

- Uses neural networks to determine the sentiment of a movie, which is either positive (1) or negative (0)
- Combines Keras dataset about Imdb movie reviews with Kaggle dataset about Rotten Tomatoes movie reviews
- Processed Kaggle dataset extensively with Pandas in order to use it with the Keras dataset
- Neural network had 2 hidden layers and reached an 82 percent accuracy rate in determining sentiment

Battleship Project with AI

C++

- Focuses on the usage of various data structures (linked lists, 2d arrays, stacks, classes, etc.) with the implementation of several programming techniques (recursion, etc.) to create a fully functional battleship game
- Player can play against another person or AI (3 modes: easy, classic, hard)
- Hard AI difficulty was created with the hunt + parity algorithm along with testing all possible ship configurations at a square to see its chances of containing a ship
- Tested knowledge of inheritance, polymorphism, recursion, and data structures

SKILLS

Skills: Graphic Design, JavaScript, Git, HTML/CSS, Java, C/C++, React.js, Tensorflow, Python, Firebase

Languages: Mandarin, Cantonese