

Darren Chen

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EDUCATION

California University of Fullerton

Fullerton, CA

Bachelor of Science in Computer Science

In Progress: Aug. 2021 - Present | Expected Completion: May 2025

EXPERIENCE

Undergraduate Data Science Research

May 2024 – Present

CSU Fullerton

Fullerton, CA

- Conducted data analysis on social media usage patterns and their emotions using Python, **pandas**, and **sklearn** to identify user behavior trends across platforms.
- Implemented **machine learning techniques**, including **K-means clustering** and **neural networks**, to categorize users based on engagement metrics and emotional responses.
- Developed data visualization skills using **matplotlib** and **seaborn** to illustrate feature scaling effects and cluster distributions in large dataset

PROJECTS

WikiGuess (1st Place CSUF Hackathon) | [GitHub Link](#) | [Website Link](#)

April 2023

- Python, Flask, HTML, CSS, JavaScript*
- Developed a **full-stack web game** that challenges users to identify real Wikipedia articles when presented alongside convincing, AI-generated fake excerpts using OpenAI's text generation API.
- Won 1st place** in the ML/AI category at the FullyHacks hackathon by collaborating with a team of 3 other developers.
- Contributed to the web development of our project focused on building the frontend using HTML, CSS, and JavaScript. Implemented responsive design and interactive features to create an intuitive user interface.

Memory Game | [GitHub Link](#) | [Website Link](#)

August 2023 - December 2023

- React, NodeJS, HTML, CSS, JavaScript, Vite*
- Developed a memory card flipping game web application using React and JavaScript to strengthen front-end programming abilities.
- Implemented game logic and state management in React with hooks including `useState` and `useEffect` to track game state, player choices, matches, turns and winning condition.
- Created an engaging user experience with animated card flipping, match notifications, restart button and turn counter.

Covid Analytics Website | [GitHub Link](#) | [Website Link](#)

November 2023 - December 2023

- React, NodeJS, HTML, CSS, JavaScript, Vite, React-Chart, Axios, API*
- Developed a full stack website that displays COVID-19 statistics
- Integrated Axios for efficient data fetching from the [Covid Tracking API](#)
- Utilized React-Chart library to visualize COVID-19 data through interactive charts and graphs
- Implemented a responsive and user-friendly UI for easy navigation and accessibility
- Collaborated with a team to continuously improve and update the website with new features and data sources

RELEVANT COURSEWORK

Data Structures and Algorithms: C++, Python

Web Development: Full Stack Web Development, Front-end Frameworks (React), Back-end Frameworks (Node.js, Flask)

Operating Systems: C++, C, Processes and Threads, Memory Management, I/O

File Structures and Databases: SQL, MySQL, MariaDB

TECHNICAL SKILLS

Languages: Python, C/C++, Type/JavaScript, HTML/CSS, SQL

Frameworks: React, Node.js, Flask, FastAPI

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse