

Jonathan Mai

626-551-8436 | jonathannmai@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

Cal State University, Fullerton

Bachelor of Science in Computer Science, 2022 - 2024 (Expected)

GPA: 3.80

PROJECTS

Spotify Mood Analyzer (React.js, Tailwind CSS, Node.js, Express, MySQL, SpotifyAPI)

- Developed a full-stack React application with Tailwind CSS for the front-end, utilizing Node.js and Express for the backend, and MySQL for database management.
- Integrated Spotify API to fetch users' recently played songs, analyzing and calculating metrics like valence levels and acousticness to assess and display their mood trends over time.
- Implemented d3.js for dynamic data visualization, creating interactive graphs to effectively represent mood variations based on the musical attributes of the user's listening history.

PDF Page Merge/Separate App (Python)

- Developed a user-friendly PDF Splitter and Merger app using Python and Tkinter, streamlining operations for splitting specific pages and merging multiple PDF files.
- Implemented intuitive GUI with interactive prompts, ensuring error-free file selection and accurate page specifications.
- Enhanced user productivity by simplifying PDF manipulation processes and enhancing note-taking efficiency.

Wordle Clone (C++, Svelte)

- Completed a school project, focusing on the development of backend game logic in C++ in popular online game "Wordle."
- Utilized the school-provided Svelte framework for the frontend, customizing it to align with project requirements.
- Enhanced game logic to mirror the authentic Wordle experience, accurately indicating not only correct positions (green) but also correctly guessed letters in incorrect positions (yellow).

Personal Website (HTML, CSS, JavaScript)

- Designed and constructed a personal website using vanilla HTML, CSS, and JavaScript to showcase personal projects, providing a comprehensive overview of technical skills and accomplishments.
- Developed a responsive layout, optimizing the website for various devices and screen sizes, guaranteeing a consistent experience on desktops, tablets, and mobile devices.
- Employed GitHub for robust version control, ensuring project continuity and enabling potential collaborative development.

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Python Programming
- Computer Organization & Assembly Language
- File Structure & Database Systems
- Operating System Concepts
- Foundations of Software Engineering

TECHNOLOGIES AND LANGUAGES

- C++, Python, JavaScript, Typescript, React, Node.js, MySQL, HTML, CSS, Tailwind CSS
- Git, npm, Linux, Windows, macOS