

Austin Maung

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Education

University of California Davis

B.S. in Computer Science

Davis, California

March 2024

Relevant Coursework - Web Programming, Machine Learning, Algorithm Design and Analysis, Operating Systems & System Programming, Computer Architecture, Theory of Computation

Projects

TikTok Battle

React, Express, SQLite, pagerank-js, TikTok API

- Developed a robust SQLite3 database schema to efficiently store user-submitted videos.
- Utilized the TikTok API, specifically the TikTok HTML embed, to load user-submitted videos which required a convoluted workaround due to the embed's static nature.
- Integrated an existing PageRank algorithm library, adapting it to suit the project, enhancing the platform's ability to identify users' favorite video

California WaterLevels

React, Express, React ChartJS

- Utilized Express as middleware to seamlessly communicate with the CDEC water API, and retrieve accurate water level data.
- Engineered a React component to dynamically filter and render that data using React ChartJS, ensuring precise visualization of water level trends.

Web-based Multiplayer Card Game

Socket IO, Flask, p5.js

- Utilized Socket.IO and Flask to Engineer a robust API ensuring real-time synchronization of player actions and turn-based gameplay. Managed individual player perspectives to prevent global visibility of game elements.
- Implemented animations, UI/UX elements, and ensured seamless cross-platform compatibility using only JS and HTML canvas via p5.js, eliminating the need for a game engine.

Multiplayer Maze Game

Firebase, P5.js

- Employed Depth First Search algorithm to generate randomized mazes, ensuring unique and challenging gameplay experiences.
- Orchestrated real-time game state management for multiple players using Firebase, ensuring smooth and synchronized gameplay.
- Implemented intuitive controls and interactive features using p5.js

Skills

Programming - Python, JS, C, C++, C#, Java, Lua, Erlang, Haskell, MySQL

Tools - React, Express, Flask, Firebase, SQL, NoSQL, Anaconda, Tensorflow, Git, Linux, CMake

Experience

Amazon

Newark, CA

Warehouse Associate

June 2021 - September 2021

- Quickly mastered and adapted to diverse supply chain logistics.

Cepheid

Sunnyvale

Manufacturing Associate

June 2022 - August 2022

- Maintained punctuality, worked full-time shifts in a high-pressure environment, and collaborated with stressed coworkers to meet production targets.