

STACY MCCARRELL

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Education

Western Governors University

Bachelor of Science in Computer Science

Dec. 2024

Salt Lake City, Utah

Relevant Coursework

- Data Structures and Algorithms II
- Web Development
- Advanced Database Management
- Advanced Java
- Scripting and Programming
- Back-End Programming in Java

Experience

Software Engineering Intern

May-Aug 2024

CVS Health

Richardson, Texas

- Gained hands-on experience in mobile app development, starting with iOS development using Swift and SwiftUI, followed by Android development using Kotlin.
- Learned various types of mobile app testing, including functional, UI, and automated testing.
- Developed and executed automated tests for the CVS mobile app to ensure high-quality user experiences and functionality.
- Collaborated with senior engineers to write and maintain test scripts for both iOS and Android platforms.
- Participated in code reviews and contributed to improving the testing process.

Projects

Full-Stack Real-Time Chat Application | *JavaScript, NextJS, ReactJS, NodeJS, Supabase, Dyte.io SDK, CSS, JSX*

- Developed a user-friendly interface for real-time group chat, direct messaging, and multimedia communication, including voice, video calls, and screen sharing, ensuring a comprehensive user experience.
- Engineered secure user authentication, registration, and a social network-like friend request system using Supabase.
- Integrated Dyte.io SDK for high-quality voice and video communication in chat rooms, enabling seamless real-time collaboration and interaction.
- Implemented dynamic chat room creation and management, allowing users to join conversations and receive messages instantly.
- Hosted the application on Vercel, ensuring optimal performance and online accessibility to users.

Full-Stack Travel Destination Explorer | *JavaScript, Vite-React, Node.js, APIs, CSS, Bootstrap, Font Awesome Styles*

- Developed a full-stack travel exploration web app with Vite-React and Node.js, integrating Google Maps, Geocages Geocoding, TripAdvisor, and Restcountries APIs for a comprehensive travel experience.
- Implemented a detailed view (/location) featuring in-depth information, attractions, image galleries, and a "Book Now" feature linking to TripAdvisor.
- Showcased three random countries on the homepage, each with capital, description, image, and weather. Users can click "Visit" to load the detailed view (/location).
- Enabled users to input custom locations on the main page, dynamically loading tailored information on submission.
- Hosted the back end on render.com and the front end on Netlify for seamless online accessibility.

Python Flappy Bird Clone with NEAT Neural Network | *Python, NEAT, neat-python, Pygame*

- Developed a Flappy Bird clone using Python and Pygame library, implementing game mechanics and graphics.
- Integrated the NEAT (NeuroEvolution of Augmenting Topologies) neural network to train an AI agent to play the game autonomously.
- Demonstrated proficiency in Python programming, game development, and artificial intelligence.

Gameboy Emulator | *C++, SDL2, Dear ImGui*

- Developed a functional Gameboy emulator using C++ and SDL2 for rendering graphics and handling inputs.
- Implemented CPU, GPU, and memory emulation to simulate Gameboy hardware.
- Integrated Dear ImGui to create a debugging interface, allowing for real-time inspection and manipulation of the emulator's state.
- Utilized SDL2 for cross-platform compatibility and efficient graphics rendering.

Technical Skills

Languages: Python, Java, C++, Swift, Kotlin, HTML/CSS, JavaScript/TypeScript, SQL, MySQL

Developer Tools: VS Code, Visual Studio, IntelliJ, Netbeans, Xcode, Microsoft Office

Technologies/Frameworks: GitHub, Node.js, Windows, MacOS, ReactJS, jQuery, JSX, Flask, Express