Brian Loewe

Software Engineer

Lake Forest, CA 92610 | brianloewe21@gmail.com | 949-558-1877 | bloewe21.github.io/Portfolio-Website

linkedin.com/in/brian-e-loewe | github.com/bloewe21

Education

California State University Fullerton, *B.S., Computer Science*　　　　　　　　Aug 2019 – May 2023
- **Achievements:** Graduated Magna Cum Laude (GPA 3.8), CSUF Dean's Honor List (2019-2023)
- **Coursework:** Game Design, Artificial Intelligence, Introduction to Machine Learning, Data Structures, Algorithm Engineering, Operating Systems Concepts, File Structure and Database, Software Design

Experience

Game Developer, HealingHand Tech – Remote, CA　　　　　　　　　　　　　Sep 2024 – Present
- Developed motion-controlled prototypes and builds for games in Unity3D used for physical therapy sessions
- Collaborated with team members to test and debug game features, ensuring optimal performance and UX

Coding / STEM Instructor, Code Ninjas – Irvine, CA　　　　　　　　　　　　Jan 2024 – Present
- Instruct 20+ young students daily in game-making coding courses using JavaScript, Unity, and Roblox

Projects

A Pair of Feathers Squawk Together
- Developed a Unity project published to Steam, created as a solo developer over a 6 month period
- Used C#, OOP concepts, and Unity's interface to program a 2D platformer with physics

Discord Clone
- Created a Discord-like website that allows users to create servers and chat online
- Implemented Firebase for database management and Redux for the UI and UX

Connect Four AI
- Programmed a machine learning algorithm to predict the results of a Connect Four game based on game state and piece positions
- Used pandas and scikit-learn to generate KNN, SVM, and Naive Bayes models, achieving 80% accuracy

Search Daily
- Designed a website using HTML, CSS, and JavaScript to play daily word search puzzles with shareable results

Technical Skills

Languages | Backend: Python, C++, C#, Java, Lua | **Frontend:** HTML, CSS, Bootstrap, JavaScript, React

OS and Software: Windows, Linux, GitHub, Microsoft Office, Unity, Unreal, Firebase, Docker

Other: AWS, pandas, scikit-learn, Ableton, Aesprite

Additional Information

Certifications
- Java Programming and Software Engineering Fundamentals
- AWS Fundamentals Specialization

Awards/Activities
- California Scholarship Federation Member
- AP Scholar with Honors
- CSUF Video Game Development Club