ASHLEY MAYS

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PROJECTS

Online Piano HTML, CSS, JavaScript, Web Audio API, MediaStream Recording API, VS Code, Git   [GitHub]

- Created a virtual piano that can be played on all modern browsers on both desktop and mobile devices using responsive web design techniques
- Reduced website loading time to 331ms using asynchronous programming techniques
- Programmed functionality to sustain and soften notes similar to a grand piano as well as four different instrument sound options
- Implemented audio recording capabilities that allow users to play the keyboard, record their playing, and download it as a MP3 file

Portfolio Website HTML, CSS, Git, VS Code   [GitHub]

- Created a custom portfolio website to showcase side projects
- Applied modern web development principles and responsive web design techniques for support on all devices and modern web browsers

Path Video Game C#, Unity3D, Blender, Visual Studio   [GitHub]

- Developed a puzzle game based on Hamiltonian paths
- Programmed scene transitions, character movement, sound output, and button functionality
- Implemented and designed 20 unique levels with guaranteed solutions

EXPERIENCE

Mathematics and Computer Science Tutor (Seasonal)   **CSU Fresno, January - April 2021**

- Strengthen students' understanding of advanced mathematical concepts and C++ programming
- Collaborated with team members to develop a plan for outreach that increased student engagement by 10%
- Communicate with team members and students remotely in live virtual sessions via Zoom
- Create and curate educational blog posts on the Fresno State Learning Center's official blog under a strict weekly deadline

Instructional Student Assistant (Seasonal)   **CSU Fresno, August-December 2020**

- Lead two mathematics classes of 25+ students remotely in live sessions via Zoom
- Prepare informal lesson plans and create original mathematics problems for students during sessions
- Relay advanced abstract concepts to people with technical and non-technical backgrounds in a timely manner
- Communicate with a supervisor and colleagues to discuss the mathematical content to be presented and taught to students

Private Math Tutor   **Multiple Locations, October 2017 - January 2020**

- Strengthen high school students' understanding of mathematics topics and concepts, including algebra and geometry, on a intermittent basis
- Communicate advanced abstract concepts to people with technical and non-technical backgrounds

SKILLS

Languages and Frameworks	C++, HTML, CSS, JavaScript, Latex, C#
Tools	Git, GitHub, Visual Studio, VS Code, Unity3D
Relevant Coursework	C++ and Object-Oriented Programming, Data Structures and Algorithms, Calculus I-III, Real Analysis, Ordinary Differential Equations, Linear Algebra, Mathematical Proof Writing and Logic
Soft Skills	Problem-solving, Communication, Adaptability, Work Ethic, Empathy

EDUCATION

BS in Mathematics, California State University, Fresno   May 2022