

REED GUNN

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EDUCATION

Northwestern University

Evanston, IL

Bachelor of Science, Computer Science, GPA: 3.50/4.00

Sep 2023 - Jun 2027

Relevant Coursework: Data Structures & Algorithms (Racket), Fundamentals of Computer Programming 2 (C/C++), Engineering Analysis 3 (MATLAB, system dynamics), Fundamentals of Computer Programming 1.5 (Python), Engineering Analysis 2 (MATLAB, vector methods), Fundamentals of Computer Programming 1 (Racket), Engineering Analysis 1 (MATLAB, linear algebra)

PROJECTS

Worble Game App

- Developed Wordle-like game using C# and Unity that uniquely allows player to choose length of word to guess from 2 to 15
- Loads official Scrabble dictionary into a hash set for efficient lookup, and nearly all (of 174) game objects initialized via script
- Offers buttons such as 'View answer' and 'Restart with new word', and supports various messages for submission attempts

Sleep Schedule Generator App

- Developed health app using C# and Unity, sleep-needed algorithm rooted in analysis of study from National Sleep Foundation
- Takes user's birthday, time it takes to fall asleep, and wake-up time, and outputs bedtime recommendation
- Implemented robust algorithm that calculates user's age in days using current date provided by API

Ping Game App

- Developed Pong-like game using C# and Unity where user can choose from 3 difficulty levels and plays against computer
- Bypasses physics engine by implementing frame-by-frame position updating/tracking using componential velocity
- Introduces physical component of friction between paddles and ball which influences post-collision vertical velocity of ball

EXPERIENCE

Code Galaxy

Remote

Computer Science Instructor

Jun 2024 – Aug 2024

- Taught fundamentals of computer science to kids through Scratch and Minecraft Education projects in a virtual classroom

Andrews Academy

St. Louis, MO

STEM Camp Counselor

Jun 2023 - Aug 2023

- Collaborated with another counselor to plan and conduct hands-on engineering/math-themed projects for kids

SKILLS

Languages: Python, Java, C, C++, C#, HTML, CSS, MATLAB, Racket

Technologies: Git, GitHub

Awards/Honors: 1 Dean's List Honors Certificate / Northwestern University

INTERESTS

No-gi Brazilian Jiu-Jitsu, self-improvement books, health, fitness