FRANDY JAY-R USI

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TECHNICAL SKILLS

Languages: C/C++ , JavaScript, HTML5, CSS, Node.js, SFML, MelonJS, Bootstrap
Tools: Git, Photoshop

EDUCATION

Oregon State University - Corvallis, OR **2017 - 2018**
B.S. in Computer Science
GPA: 3.86

University of California, Santa Barbara - Santa Barbara, CA **2012 - 2016**
B.S. in Biological Science

PROJECTS

Elemental Tower Defense
- Browser based game with specialized elemental towers, providing dynamic game strategies and play.
- Utilized the MelonJS framework to allow for efficient rendering of game sprites and organized and encapsulated object files.

Tech Stack: JavaScript, HTML5, Node.JS, MelonJS

Space Shooter
- Space Invader game providing engaging and dynamic play through level progression, power boosts, and diverse enemy units.
- Developed a tree-based iteration algorithm, creating an efficient and optimized rendering of game objects and entities.

Tech Stack: C++, SFML

Snake Clone
- A clone of the classic Snake game implementing vivid sprites and animated sound effects, improving upon the original's visual and engagement capabilities.
- Created concise, reusable functions with the Simple Fast Multimedia Library (SFML).
- Organized efficient, clean, and encapsulated code, implementing core object oriented programming principles.

Tech Stack: C++, SFML

Budget Tracker
- Web application intended for personal budget and expense management.
- Provides a user-friendly interface allowing users to effortlessly add, remove, and calculate a list of incomes and expenses.
- Designed a user-friendly front-end interface with Bootstrap, creating a responsive browser application with seamless interactions.

Tech Stack: JavaScript, HTML5, CSS, Bootstrap

PROFESSIONAL EXPERIENCE

Oregon State Computer Science Department, Teaching Assistant **2017 - 2018**
- Guided 1,200+ students' growth throughout the semester by providing prompt, engaging instruction, achieving student's practical grade goals with a 97% success rate.
- Conducted weekly office hours, developing personalized lessons for struggling students, debugging and effectively communicating the flaws in a berth of coding errors, and flexibly assisting in labs, projects, and other related programming questions.
- Assessed over 40 assignments weekly, punctually and accurately delineating why a student's code met or failed to meet an assignment's requirements to engage seamless communication and support to both the professor and students.