Kyle Morgan

kyle@themorganization.com | 408.203.4665 | kyle-morgan.me

TECHNICAL EXPERIENCE

OBJECT ORIENTED PROGRAMMING | Game Development / Simulations
- Architected an object-oriented physics engine simulating realistic collisions, gravity, and momentum between dynamic block and shape objects.
- Developed a modular shapes library using inheritance and polymorphism to enable interactive user-drawn objects with unique physical behaviors.
- Designed and created an online multiplayer game enabling live user interactions and synchronized game play
- Designed and built a expansive 2D Platformer, with multiple levels and interactions using Unity, and C#

FULL STACK DEVELOPMENT | Personal Website
- Designed and developed a responsive personal website using Next.js and React to showcase projects, integrating modern UI components with TailwindCSS for a clean and adaptive design.
- Implemented smooth, high-performance animations with GSAP to enhance user experience.

ARTIFICIAL INTELLIGENCE | Snake Game In Develpoment
- Currently building a full-stack Next.js application, using React, and Python to create a snake game AI model
- Implementing reinforcement learning algorithms, allowing the AI snake to evolve and improve performance through gameplay data.

PROFESSIONAL EXPERIENCE

PROFESSIONAL MUSICIAN Jan 2023 – Feb 2025 | CA
- Hired musician for 4 companies
  - Starstuck Theatre - Fremont, CA
  - The Pear Theatre - Mountain View, CA
  - Sunnyvale Community players - Sunnyvale, CA
  - The Music School - Sunnyvale, CA
- Played alongside industry veterans, developing strong communication skills through collaboration and practice with peers

EDUCATION

CAL POLY SAN LUIS OBISPO
Bachelor of Science in Computer Science
Expected Jan 2025 | San Luis Obispo, CA

SKILLS

PROGRAMMING
Python • C# • Java • Unity
HTML • CSS • TailwindCSS
React • GSAP

TECHNOLOGY
Git/Github • Vite • Next.Js
• Artificial Intelligence • Front End
• Back End • Data Structures

COURSEWORK

Data Structures
Object Oriented Programming
Calculus I-III
Physics C

CLUBS

AI Club
Cyber Security Club
Hack4Impcat Web Develpoment

LINKS

Github: **github.com/kylem148**
LinkedIn: **linkedin.com/in/kyle-morgan-2aa912389**