Hong Chen

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SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, Git, AWS S3, WSL

PROJECTS

My App Academy Heroes   Live Site | Github

Developed an educational gacha-based game using MERN stack.

- Developed complex algorithms for the game's combat system, ensuring balance between player and AI opponents.
- Implemented card styling and managed RNG elements to maintain a fair, engaging, and rewarding experience for players.
- Innovated a unique signup feature where users' photos are converted into AI-generated avatars, boosting user engagement.
- Created a system for players to earn in-game currency by answering coding questions, incorporating an educational component to the game.

STAEM   Live Site | Github

Developed a full-stack application resembling STEAM, utilizing Ruby on Rails for backend and React/Redux for frontend.

- Implemented user authentication features, ensuring secure user experiences and Created dynamic individual game pages featuring carousel previews and short video clips.
- Designed a search functionality allowing users to filter games by name and introduced a tagging system for better categorization of games.
- Integrated shopping cart functionality enabling users to add, buy games and store them in a personal library.
- Facilitated user interaction by allowing users to comment on games with the capability of performing full CRUD operations on their own comments.

Lightning Jet   Live Site | Github

Developed a dynamic game leveraging JavaScript and Pixi.js.

- Implemented core gameplay mechanics such as collision detection to regulate interactions between bullets and aircrafts, enhancing the realism and complexity of the game.
- Devised a system where enemy jets possess HP, allowing for progressive destruction of enemy jets upon reaching zero health.
- Incorporated a responsive player jet mechanism that responds to hits, falling upon a single hit but respawning a set number of times before game over, including a 3-second invincibility frame after each respawn.
- Introduced a boss jet that appears after certain enemy waves, adding an extra layer of difficulty and excitement to the game.Enabled player weapon upgrades based on score, providing an incentive for players to continually improve their performance.

EXPERIENCE

Direct Service Provider

CARES Organization

July 2017 – Dec 2022

- Engage in direct interaction and behavioral management for adolescents diagnosed with autism, providing a safe and constructive environment for growth.
- Devote consistent attention to ensuring the safety and well-being of adolescents under care, applying proactive measures to avoid any potential risks or issues.
- Foster an atmosphere conducive to learning and growth, focusing on building confidence, promoting self-expression, and enhancing overall communicative competence.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (Spring 2023)

The City College of New York - *BS - Computer Engineering* (fall 2021)