Project Free Real Estate

'); DROP TABLE TEAMS;-- & AppFolio

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Problem, Solution, & Innovation

- Staging a property with furniture is expensive and time consuming
- Current AR mobile apps have limitations
- Create iOS app offering more features than existing apps
 - Shared experiences & persistent scenes

Technical Details & Challenges

- React Native UI with ARKit backend written in Swift
 - React handles user input, Swift renders augmented reality

- Biggest challenge: interfacing Swift and React Native
 - React requires ViewManager instead of UIViewController
 - Problematic because ARKit is coupled with UIKit due to frontend-facing nature

Current Functionality

- Overview: Use menus to select furniture, place a spaceship on a plane
- React Native Frontend:
 - Style and furniture menu
 - Can pass information to backend about the item to be loaded

Swift Backend:

- Rendering Place ship at coordinate tapped by user
- Detecting Identify and draw planes to attach furniture

Demo

Moving Forward

- Utilize persistent scenes to create presets
- Implement shared experiences for multi-user capability
- User interface

Acquire large set of 3D models