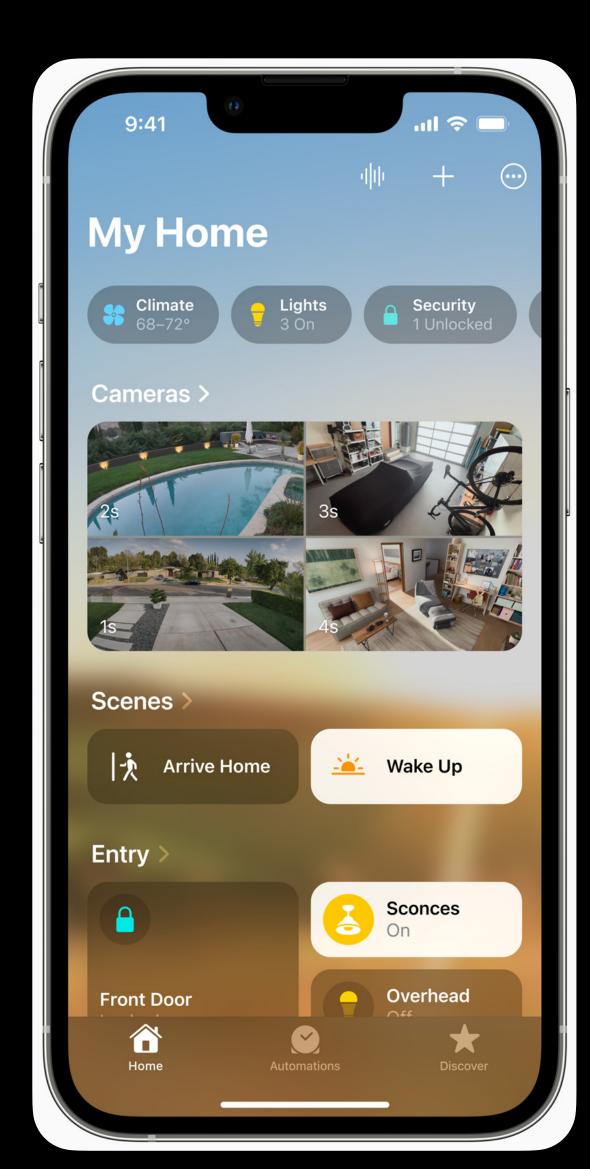# Weather Automations in the Home App

Yukati Gupta, Apple, 06/13/2022 - 09/09/2022, Apple Park

Create automations to control your accessories based on the weather right outside your home.

i.e. "Turn the living room fan on if the temperature rises above 80°F"

Technical Skills

To query for current weather data, I used Apple's new WeatherKit API which is written in Swift. I had to incorporate calls to this API into a project written completely in Objective-C. I learned a lot about build settings, project header files, and compile messages to get different languages to work together in the same project.

Connection to UCSD

I was able to use knowledge of data structures, design patterns, and app development that I learned from UCSD in my internship. I hope to share my polished knowledge of debugging with my classmates this year.

Ethics and Society

There's no question that the Earth is facing a climate crisis. With weather automations, users can conserve energy by using their accessories only when the weather crosses their specified threshold.

Personal and Professional Growth

Asking clear and concise questions was a skill I was really able to develop this internship. There was an issue that I was having with cloud syncing data about my events that was corrupting my home data and crashing basically everything. To form a question, I had to first diagnose the problem by adding breakpoints, and then phrase the issue clearly so that a full time employee could understand what was happening. There's overall less frustration on both ends when a well informed questions is asked, and the problem gets solved much more efficiently.