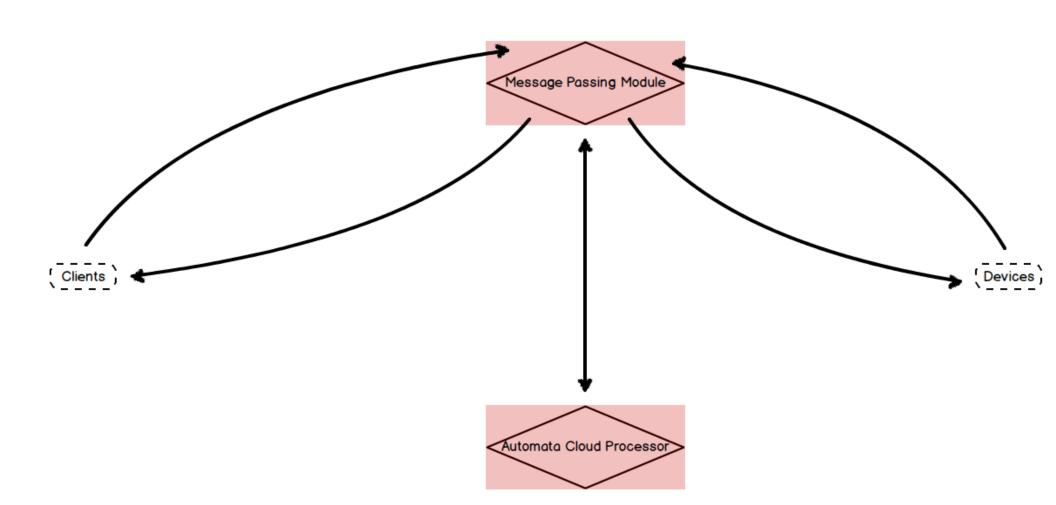
Jason Walker Capstone: Automata Cloud Processor Official Advisor: George Markowsky Unofficial Advisor: Zach Hutchinson

## **Automata Cloud Processor**

Architecture Overview



Jason Walker Capstone: Automata Cloud Processor

Official Advisor: George Markowsky
Unofficial Advisor: Zach Hutchinson

## **Automata Cloud Processor**

Message Passing Module

Jason Walker Capstone: Automata Cloud Processor Official Advisor: George Markowsky

Unofficial Advisor: Zach Hutchinson

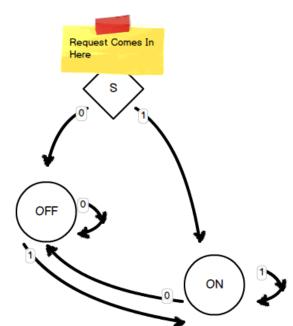
**Automata Cloud Processor** 

Cloud Processor

## Example Model of a Device (Lightbulb)

This lightbulb has two states.

On Off

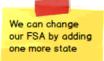


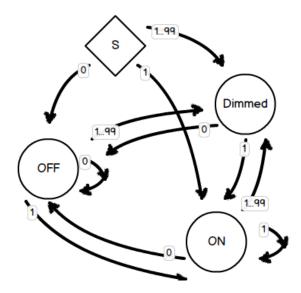
This device would be modeled by our system as:

\*\*\* I purposely changed the On/Off posiition to prove a point. Current state is an index to a state in the state array..
that way if the device fails we have a saved state in the DB model. When the device reboots we can read from the DB to restore the state of the machine.

## Example Model of a Device (Lightbulb)

This lightbulb has multiple states. On - Full Brightness Dimmed - Partial Brightness Off - Zero Brightness





This device would be modeled by our system as:

\*\*\* In this example we would store the value in the FSA range. We can still point to the correct value 53.. In an FSA any value that is not in the FSA is not accepted.