

OpenAg™ Cloud Description

Current Design (as of 2018-09-15 rbaynes)

- App Engine flex environment deployments
 - MQTT / PubSub service to validate and store messages
 - ReactJS web UI
 - Flask API for UI
- MQTT / PubSub IoT messaging
 - Secure data publishing from all devices and individual device control
- IoT Core device registry
 - Manages our IoT devices
- Firebase cloud function
 - Open function to accept IoT device public key and save to Firestore collection
- Firestore
 - IoT device public key collection
- BigQuery
 - Research data, recipes
- Datastore
 - User profile, recipes, devices
- Storage
 - Images, timelapses
 - Database backups

Future Additions

- App Engine
 - Image timelapse creation task (Dataflow?)
- ML for CV tasks
- Data analytics
- Memcached ?