**Purpose**
The Weather at RIT project aims to provide a software system that allows members of the RIT community near real-time access to the weather conditions around them.

**Technology**
- Node
- NGINX
- dust.js
- MongoDB
- express
- redis

**Methodology**
1. Software Concept
2. Requirements Elicitation and Analysis
3. Design & Architecture of Core System
4. Develop a Version
5. Incorporate Customer Feedback
6. Deliver a Final Version

**Architecture**
Weather.rit.edu Caching System
- Weather Link IP Hardware
  - Requests data from sensors
  - Delivers final version
- Weather Facade
  - Calls the data every 5 minutes
- Data Proxy
  - Sends data
- Redis
  - Stores data
- Redis Events
- Scheduler
- Client
  - Subscribes
  - Publishes data

**Data**
- Wind Speed
- Data: 6 Apr, 11 Apr, 20 Apr
- Units: miles per hour

**Looking Forward**
- Lightning map
- Space weather
- User preference cookies
- Mobile styling
- Wireless anemometers
- Additional sensors

**Lessons**
- Push harder when problems manifest
- Agree and record metrics early in project lifecycle
- Be more aggressive in 3rd party communications