

# Project Ideas

## 1. WOU “Phonathon” Management Application

- The Foundation on campus is currently using google docs to manage their phonathon work. One primary goal would be integrating the razors edge Blackbaud API allowing them access to the alumni database. They need to be able to have multiple roles, one which can create/modify information that must be approved by an admin role. They also will need to be able to create Pledges that are attached to the alumni data. As some of the data is sensitive, the users would need to be able to enter in sensitive data than have it hidden from standard views within the MVC. It is possible there is more but we need to schedule a meeting with the foundation to talk about the project.

## 2. Homesteading/Gardening Application

- Plant identification API (Plant Image Analysis, Plant.id) to take photos on your phone, planting seasons, expected harvest yield. Alerts on when to harvest, water, fertilize. Depending on how far and quickly we finish sections up adding information on solar panels and calculating how many you need based on voltage needs, do the same thing for animals as the above section on plants (common care, gestation, etc.) Video searching for off-grid/homesteading information and a way to rank the videos.

## 3. Pothole Severity and Mapping Application

- Take photos with your phone and have image analysis determine the depth and severity of the pothole giving it a ranking, then using geolocation to map it, attaching photos, severity, and other data, while viewing the pothole have a button to contact local governance linking or auto building an email with all the relevant information with sample text.