**Site Architecture**

* Problem: How do you create code that can span many projects?
* Solution: Utilize MVC Design Patterns
* Solution: Create Modular Reusable Code
* Solution: Utilizing Object Oriented Design

Talk about:

* Walk through the folder set up and the template

**Creating Code that Makes Sense**

* Problem: How do you create code that is understandable?
* Solution: Comments and Structure
* Solution: Code and Logic Design

**Creating Reusable Components**

* Problem: How do you create the best modular components?
* Solution: Group Controller
* Solution: Group Model
* Solution: Group Class

**Database Design and Structure**

* Problem: How do you create a a database architecture that can support multiple projects?
* Solution: Database Design
* Solution: Parent Logic/Database

**Creating Dynamic/Responsive Code**

* Problem: How do you create dynamic Applications that are fast and responsive
* Solution: Divvy Dynamic Code
* Solution: React/Flux

**Creating Secure Code**

* Problem: How do you create secure code?
* Solution: Researching Current Trends
* Solution: Hash and Encryption

**Data Analysis**

* Topic: Python web Scraping with Beautiful Soup
* Topic: OSU Master's Thesis Designing Digital Radiation Software
* Topic: OSU Financial Analysis

**OLD**

**Problem: Site Architecture**

* Talk about how the design is reusable with template

**Problem: Creating a Path to Follow**

* Talk about commenting code
* Logic
* Solution: CSS Design
* Solution: Logic Design

**Problem: Creating Reusable Components (Groups)**

* Solution: Group Controller
* Solution: Group Model
* Solution: Group Class

**Problem: Creating Data Flow (Posts)**

* Talk about the article that parses webpage
* Solution: Parent Logic/Database

**Problem: Creating Interaction (Users)**

* Solution: Group Controller

**Problem: Creating Dynamic/Responsive Code (Divvy)**

* Solution: Divvy Dynamic Code

**Problem: Creating Secure Code (Password)**

**OHSU Job:**

* Data Analysis
* Example: Biology Work

**Key Points**

**Wishlist**

* Register
* Add User to List
  + Email
  + Existing User

**ShareShare**

* Computational Biology

**Password**

* Computational Biology

**Divvy**

* Computational Biology

**Presentation**

**Relate to Position**

* Computational Biology
* Programming
* Data Analysis

**Version Control**

* Git
* Bitbucket
* Dropbox

**Code Organization**

**Site Architecture**

* MVC
* Modular
* Object Orientated and able to roll out new sites quickly

**CSS Layout**

* MVC

**Divvy**

* Rolling to React
  + Virtual DOM will be much faster
  + Single Page Apps

**Future Work**

* REST API
* Angular
* React
* MVC

**Problems**

* Divvy- Live Editing
* Recursive File Functions
* Code Organization

**Solutions**

**Biology**

**Statistics**