**Kirkwood Community College  
Capstone 2020 Highlights**

**Steve Coonrod | Developer**

* One of the largest student-run software development projects in the country
* 2 semester project over a year, practicing Agile workflow and Test Driven Development
* 4 months of design using UML documentation standards
* 4 months of code development and testing
* 35 Developers, divided into 7 scrum teams, with 2 acting Product Managers
* **Project Overview:**

For in-depth overview, please view the project proposal contained in the Capstone\_2020 folder, titled PetUniverse.docx. This is also our teams entire documentation for the project, **over 1300 pages**.

Pet Universe is a mock corporation similar to Petco or Pet Smart which also works with local animal shelters. This is an enterprise solution integrating a client web interface and a desktop application against relational database.

**Our solution contains 4 essential layers over 10 projects:**

**3 Data Access Projects**; A fake repository, a data accessor interface library, and a class library of data accessor classes.

**3 Logic Manager Projects**; A test manager library, a logic manager interface library, and a class library of logic manager classes

**3 Presentation layer Projects**; An MVC Web project, A WPF project, and a UI Utility class library

A class library Data Transfer Object classes  
 **A SQL Server Database**, containing over **14,000 lines of code**

* **Development Environment:** Visual Studio 2019
* **Languages:** C#, JavaScript, TSQL, CSS, HTML, Razor, LINQ
* **Frameworks:** ADO.NET, ASP.NET MVC

with Identity and Entity Framework integration

* **Data Persistence:** SQL Server Relational Database

With Azure pipeline deployment

* **Workflow Management:** JIRA
* **Version Control:** Github/Git Bash
* **Personal Contribution:**

Developer for the Donations and Recruiting scrum team

My Primary focus for the project was in the event process, designing and implementing the CRUD functions necessary for employees and online visitors to view and manage company related events. I also worked closely with the system’s request process as well as helping to design the initial UI.