

An ideal senior design project, or capstone project is something that can really show what I have done over the course of my enrollment at UC. I want to be able to build something innovative, functional, and practical. I want this project to be original and unique but also able to be used by many. While we might not use only things we learned in college, I would also like to be able to connect what I was doing in my co-op. I got some front end and back end experience in web app development, so ideally for our web app, I'll be able to connect what I've learned from my experience and help my team. I want to also be able to work with my peers in a professional environment to work on my workplace skills as well.

The University of Cincinnati has taught me a lot of my four years of being a student. I would like to recall my Data Structures course CS2028c and hope to be able to use my knowledge of inheritance, templates, and classes to be able to help me with the backend of this project. Also I will be able to gain help from my software engineering course EECE3093c. This course was generally showing us how to set up and go about completing a software engineering project. Using methods, design, testing, and maintenance. Thanks to UC, I am proficient in many languages such as, C++, Matlab, Python, Machine Language, and Haskell. While I wish we could have gone deeper into languages such as Python and C++ it's still nice to learn the other languages.

At my co-op, FOX Sports, I worked in the backend and the frontend. I work as a software engineer on the Sports Data team. This is where we take the data from our provider and then process it and put it into our own API. I also worked on the recommendations team where we use machine learning to help recommend shows to people of the FOX Now app. Technical skills I have achieved in the backend is C#, MySQL, and .NET. I also learned some technical skills in the frontend using razor, mudblazor, CSS and CSHTML. While at FOX I have also grown into

being a better professional where I use things like slack to communicate, use outlook to set up meetings. I also gained experience in presenting my work as well in front of my peers, those on my team and those who know nothing about what I am doing.

UC has prepared us on how to set up projects, as well as my co-op. We all know how to set up github repositories and connect that to an environment for push and pulls. As much as we want to start coding we need to build a plan, and documentation on how we want this project to run and go. These can be uploaded to our github as well as our actual project files. We want to make sure our vision is clear before we spend time on developing that way time isn't wasted on something that isn't needed or necessary. We will know that we are ready to start developing when everyone sees the same picture and knows what is expected of them.

My motivation for this project is the fact that I've heard of capstone projects ever since I got to UC. I thought it was very unique and cool that we are forced to build something to reflect what we have learned. It's not a basic project where we have requirements to show off a specific thing we have learned rather we have free reign to do whatever we want and can let our creative juices flow. It's a time where we as developers have envisioned an idea for the last 4 years and can finally dedicate some time/resources to making it happen. I think it would have been cooler to be able to dedicate more time on it because I still have 15 other credit hours to deal with while trying to build something fresh. Overall, I am really excited and can't wait to see what my team can build.