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Assignment 3
Senior Design

Our project has many parts to it, but the general idea is to facilitate a server monitoring application that is completely open-source. From an academic perspective, the project has many technologies and frameworks that are brand new to me and I'm excited to learn about. We're looking into NodeJS to host the web app that displays the server information, and I have very limited JavaScript experience. Obviously NodeJS is a popular framework these days, so having that experience will only bolster my resume. We're also thinking of using the Go language for the server monitoring client, which is another language I have very limited experience in. I'm excited to see how we can use the language to its full-potential.

From an academic perspective, there really isn't much I can say about the curriculum that will guide our design process. I suppose we could say that the freshman year CS1021 course taught us Object-Oriented Programming, or that our that our third-year EECE3093C taught us about the Agile development practice we're planning on using, but unfortunately about 99% of the tools and practices that we'll be using on our project came from the Co-Op terms I served away from the university.

That being said, from a co-op experience, I'm planning on utilizing many of the tools that I learned while working for Saggezza across my five co-op semesters. I learned how to manage teams, write code in a responsible and maintainable way, use Git as a source control framework, write responsively-designed web pages that are easy on the eyes, code in a test-driven way, handle requirements and feedback given from a product owner, manage release pipelines, manage the hosting of web apps across multiple cloud environments, and many more. All of these skills I learned with hands-on experience in my co-op semesters, many in a trial-by-fire method but it worked.

I'm excited to participate in this project because I see the rising costs of server monitoring as a real issue to enterprise application writers. By having a suite of open-source software that can handle many of the features that companies normally pay thousands of dollars per month for, we can make a real impact on the industry and allow programmers and IT teams alike to focus on more important matters. My preliminary approach to designing a solution is to focus on what the user wants out of the application. Write down a list of features that we believe the user would like to have, and then narrow down what's possible and impossible from there.

My expected results and accomplishments for this project will be a clean and working delivered product at the end of our year together. I'm sure there will be hiccups along the way, but being confident in our work at the end presentation will make it all worth it. I'll evaluate my contributions the same way that all of us will, by doing the roles that we're responsible for. I'll try to prevent a time-crunch scenario where I need to ask a fellow group member to handle my responsibilities as best as I can.