

This senior design project represents the culmination of my academic journey. It's an application of the theoretical knowledge and technical skills I've acquired over the years. It's an exciting opportunity to not only demonstrate my proficiency in computer science but also to contribute to the development of a practical solution with real-world utility. Throughout the computer science academic curriculum we have learned so much theory that can be applied to this project.

The culmination of my college experiences will be fundamental to the development of the project. The computer science curriculum is robust and effective at transforming someone with zero knowledge of computer science to someone with an effective understanding of the critical thinking skills to be successful. The specific CS courses I would love to highlight as being the most relevant to the senior design project are, python programming (CS2021), data structures (CS2028), and software engineering (EECE3093C). In Python programming I gained proficiency in writing clean and efficient code, which will be invaluable in ensuring the smooth functionality of the web application. Data structures knowledge will allow me to efficiently manage and retrieve the data in our web application. Additionally, the software engineering principles I've learned in class have instilled in me the importance of a structured and organized development process.

My co-op experiences will be an invaluable asset to the success of the senior design project. I had the opportunity to co-op with Siemens as a software engineering intern and learned a lot of real world skills of what it takes to be a software engineer. Technical skills are important, but what shouldn't be overlooked is how to work with a team because very rarely will you ever work on your own in a real world scenario. So, working at Siemens has prepared me greatly for the task to be undertaken. I've had to work with teams of software engineers at different levels, from other interns to senior engineers, in addition to working across different time zones. I expect to apply the valuable collaboration and communication skills I have developed over time in my co-op roles.

The motivation for the project comes from the fact that as a team, web development is an area we are interested in pursuing more in depth on a project. My roles on co-op have been web development adjacent, so this project will be a great opportunity to hone my skills. I am motivated to participate in the project because I know at the end of it, this project will provide me with a practical skill set that I can place on my resume and also be able to effectively exhibit to employers on a job interview. Our preliminary approach to designing a solution will first be to get all the requirements and features we want the application to have, so we know exactly what we're building. At the end we want to be able to have a web application that we are

proud of that anyone can use and add value to their lives. We will know that we have done a successful job on this project when upon completion it is able to meet all the project requirements and receives positive feedback from potential users.

I will self evaluate myself based on if I'm able to deliver on the tasks required of me and also based on the feedback from my fellow team members. I am excited for the opportunity to work on this senior design project and see what we're able to create in the allotted time. This project aligns perfectly with my career aspirations as it provides a practical platform to apply the web development skills I've acquired through my coursework. Additionally, it offers a chance to delve deeper into web development, an area that has always fascinated me. The end goal of crafting a web application that not only meets our expectations but also adds value to users' lives is a driving force behind my commitment to this project. I eagerly anticipate the learning and growth that will undoubtedly come from working on this senior design endeavor.