

Computer Science

Contract	Term	Contract Title	Course	Description
354102	Fall 2017	Creating an Application Prototype	CPSC 3555	<p>This project aims to go through one of the key stages in software engineering: prototyping. I will be using the Invision software for this. I will either be redesigning an existing application, seeking to improve on its flaws, or will design a new idea from scratch. Invision will allow me to quickly create design the workflow of the application and all the graphical elements that the user will interact with, but without having to actually implement the code. Thus the application will appear to fully be created, even though much less of the work has been done. Once I have a working prototype, I will then create a survey that I will have users fill out when they try out the demo. I will then compile the data together to get a feel for what design elements users liked or disliked.</p>
354104	Fall 2017	Exploring Heapsort in a Graphical Interface	CPSC 5115U	<p>I will be creating an application that can be used to help computer science students understand heapsort, a sorting algorithm. The application will allow students to easily grasp theoretical concepts by visually going through each step of the solution. It will have a brief explanation of the algorithm and the steps. Then user will have the option of entering in any given array of numbers. They can then decide if they want to go to the solution immediately or go through each step in the solution. The application will be web based with python for the backend and then html and css for the frontend.</p>