# Software Development Plan

## CS 3300-002 Spring 2025

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➢ Software Development Report (Technical Document)  
➢ What actually occurred during the development process

Introduction

In the project, the goal was to create a portfolio website for personal use by the developers. The problem that we were trying to solve is the problem of standing out in a job market that is growing ever more competitive. The number of CS degree graduates and holders continues to rise in contemporary times, and the process of making oneself stand out to potential employers is starting to become less of an extracurricular and more of a requirement. A portfolio website can accomplish this while giving an employer a window into the life and work of an employee that they may be screening for a job. A portfolio website can contain biographical information, as well as built-in or links to projects that an employee has completed or participated in. In essence, a portfolio website allows a person to show off their personal skills to anybody who may be interested in more information about them.

The Project was interesting in the challenges that were faced throughout the development cycle. Due to the wildly different life schedules that all of the groupmates had, the only times we were ever able to meet were right after the class session ended on Mondays and Wednesdays. However, this was heavily supplemented by the use of Discord. The group was able to communicate effectively through the app’s messaging system, allowing for everyone's busy schedules to have a small impact on development. Development of the project started off very fast, as the main homepage for the portfolio site was created within the first two weeks of development. After that, development slowed. Most of the project code was developed within the last month of the project’s due date. Most of the documentation was developed as it was needed.

We originally planned to try and make this website so that any user could come in and make their own page on the website, but we soon realized that this was going to require an entire revamp of what we already had. We realized that we would not have enough time within our deadline in order to construct this social media-like website, and decided to push forward with hosting

The following image is an image of the software architecture for this project.

A diagram of a computer network

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As can be seen, the design of this project is very simple. Since the project is being hosted by either GitHub Pages (or a user’s local client, if they prefer to download the repository and run the code on their own), the website is static, and there is no complex backend that needs to be compiled. The static page is served over the Internet to whatever device is requesting it.

The following screenshot is the software architecture design

A diagram of a website

AI-generated content may be incorrect.

➢ The SDP content updated to reflect what actually occurred  
➢ One report on entire development activity  
➢ One final section is Software Metrics (line count, run time, file naming convention, etc) – this paragraph also is included in User’s Manual and Developer Documentation

As of the latest update to this document (April 26th, 2025), there are currently 1703 lines of true code in the entire repository. The language breakdown of the repository can be seen below.

A screen shot of a computer

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As can be seen, the majority of the code in the repository is HTML code, reflecting the need for the Hypertext Markup Language in the development of a portfolio website. The runtime of the page hosted by GitHub Pages is seen in the screenshot below.

A screenshot of a computer

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