# Future Developer’s Documentation

## CS 3300-002 Spring 2025

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# General

This project (John Doe Portfolio) is a mock portfolio website created for academic purposes as part of CS 3300-002. The website is designed to showcase small coding projects, such as simple games and an encryption tool, in a clean, organized way. It serves as a demonstration of basic web development skills using HTML, CSS, and JavaScript, as well as experience working with hosting services like GitHub Pages and domain management through GoDaddy.

The portfolio is intended to be maintainable over time, with documentation provided to assist with bug tracking, future updates, and potential project expansions.

This document can be considered a Maintenance Manual or Developer’s Documentation.

# Projects on Portfolio

## Hill Cipher

**Description:**

* Encrypts and decrypts messages using a 3x3 Hill cipher matrix.

**Technology Stack:**

* HTML, JavaScript, CSS (custom for page)

**Known Bugs:**

* Decryption sometimes fails (see Bug Tracker).

**Maintenance Notes:**

* If embedding issues persist on GitHub Pages, consider self-hosting.
* Double-check math calculations, test with different keys.

## Snake

**Description:**

* Embedded Snake game.

**Technology Stack:**

* HTML, Python

**Known Bugs:**

* Game does not end when snake interacts with boundaries (see Bug Tracker)
* Does not embed properly to GitHub Pages (see Bug Tracker)

**Maintenance Notes:**

* If embedding issues persist on GitHub Pages, consider self-hosting. Could also consider having the game cause a separate pop-up window.
* Check code to ensure that game functions properly.

## Tic Tac Toe

**Description:**

* A simple Tic Tac Toe game.

**Technology Stack:**

* HTML, JavaScript, CSS

**Known Bugs:**

* Game does not end after someone wins (see Bug Tracker).

**Maintenance Notes:**

* Add additional functionality:
  + A time limit
  + Score board
  + An ‘X’ or ‘O’ marker disappearing after 3 moves
* Ensure project is properly available on website

## Blackjack

**Description:**

* A simulated version of a blackjack table.

**Technology Stack:**

* HTML, Python, CSS

**Known Bugs:**

* TBD

**Maintenance Notes:**

* If embedding issues persist on GitHub Pages, consider self-hosting.
* Add ‘Challenge Mode’, by removing card counter and having a timer instead.

# Ideas for Future Projects

## Lottery Simulation

**Description:**

* Simulates a simple lottery drawing.

**Technology Stack:**

* HTML, JavaScript, CSS

**Notes:**

* Find a way to incorporate winnings from Lottery game with the blackjack project. To do this, finding a new host would most likely be required as GitHub Pages does not offer that kind of interactivity in a simple way.

# Bug Tracker

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Bug Found | Fixed? | Notes |
| 4/21/2025 | The Snake Game fails to properly embed into the site | In-Progress | This is a GitHub Pages issue and would most likely require finding a new host. |
| 4/21/2025 | Hill cipher does not properly decrypt the message it creates. | In-Progress | This is either an issue with the math or the embedding into GitHub Pages, under investigation. |
| 4/21/2025 | Tic-Tac-Toe game does not end after someone wins. | In-Progress | Cells can continue to be filled until the board no longer has any empty spaces. |
|  |  |  |  |
|  |  |  |  |

Table . This table will be updated as bugs are discovered and fixed

# Hosting Information

**Host:** GitHub Pages

**Domain Name Service Provider:** GoDaddy

**Contact Form Host:** Formspree

A screenshot of a computer

AI-generated content may be incorrect.

Figure Example of contact me submission

**Known Issues**:

* GitHub Pages might not fully support interactive projects like Snake.
* GitHub Pages does not support server-side code or database functionality.

**Maintenance Notes:**

* Explore alternatives if problems persist.
* Ensure CNAME file is properly formatted to allow website to use the proper Domain.