# CS2613 Portfolio

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The purpose of this portfolio is to reflect on and display work that you have completed throughout the Winter 2024 term for CS2613.

By signing below, you acknowledge that all work submitted in your portfolio is of your own work and/or has the names of the other students involved in an author tag at the top of your code. I also understand that the professor reserves the right to change my letter grade if I receive less than a 55% on the Final Exam, if we disagree on my selected grade, or if I perform poorly on the Portfolio Questions.

Signature: 3734692          Date: April 7, 2024


Complete all sections of the portfolio before filling this out. Based on my **work in my portfolio**, I believe I deserve the following letter grade of in CS2613. Please select one:

<div align="center">

**<u>A+</u>**

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**Additional notes:**
- Throughout the portfolio, please feel free to add space, tables, images, etc. when you need it.
- The report should be easily readable.

**Section 1: Zipped Portfolio**
With this PDF, you must submit a zipped portfolio of all work necessary to support your claims in the following sections. The zipped file should include revised work from the course such as labs, programming questions, exploration activities, midterm code, and anything else that you think is important for me to see.

**Section 2: Deliverables**

In the following section, please describe the deliverables included in your zipped portfolio.

**Note** – Satisfactory work would be considered work that meets the important requirements of each deliverable.

How many satisfactory labs are included in your portfolio?

**All the labs I also have the word documents from the extra labs.**

Which labs are missing? Explain each missing lab.

N/A

How many satisfactory programming questions are included in your portfolio?

**All the assigned programming questions**

Which programming questions are missing? Explain each missing programming question.

N/A


How many satisfactory exploration activities are included in your portfolio?

**All EAs are in the portfolio.**

Which exploration activities are missing? Explain each missing exploration activity.

N/A

**Section 3: Feedback**

For each programming question and exploration activity of the course, fill out the table below. The second column should be checked if you received feedback to improve upon your submission (fill out with Yes/No). The third column asks you if you used the feedback to improve the submission and is only necessary to be completed if you answered "Yes" to column 2. In other words, if you received a 0/1 on a submission and received feedback, write "Yes" in the associated column, then write "Yes" or "No" in column 3 if you made the recommended changes.

| Deliverable | Feedback? | Revised? |
| --- | --- | --- |
| Python 1 | N/A | |
| Python 2 | N/A | |
| Python 3 | YES | YES |
| JavaScript 1 | N/A | |
| JavaScript 2 | N/A | |
| JavaScript 3 | YES | YES |
| Racket 1 | N/A | |
| Racket 2 | N/A | |
| Racket 3 | N/A | |
| Octave 1 | N/A | |
| Octave 2 | N/A | |
| Octave 3 | YES | YES |
| Exploration 1 | N/A | |
| Exploration 2 | N/A | |

Describe at least one time in the course you received feedback and incorporated into your work. This can be about any aspect of the course.

Python 3

On python 3 I made a mistake on my remove student functionality.

I accidentally had my linked list remove not properly set up so it would crash my program, I fix the remove method and tested it with tons of input, one test the marker talked about was when there was no students now it checks if the head is null and if so it return false meaning that there is no students so we cannot remove a student.

JavaScript 3
The feedback I was given on my JS3 was my latitude wasn't printing when the city had no population data, The city radius wasn't in KM it was defaulted to Miles, and it was returning American cities and not just Canadian cities.

To fix I fixed my latitude (I just had a spelling mistake), I added the params that were needed so the units in Km and the countryID to Canada.

Octave 3

I was close in output, but I made a mistake in my bayes function. I wasn't getting the total number of characters in the book I was counting the number of words in my struct, I was counting rows not the actual number of characters in each row. Now, it accesses the row and gets the number of characters per word and then divides the word by the number of characters.


**Section 4: Learning Reflection**

What did you learn about programming in this course?

I learned the power of multiple languages and their strengths and weaknesses for each problem. Racket is very important for learning recursive programming compared to octave where recursive programming isn't as important. JavaScript, we see how powerful it is with APIs and website development, react was going to be my EA if I didn't go with a MongoDB. Python is a very good choice for a lot of different programming questions, but it is quite slow compared to more powerful programming languages like Java or C.

What did you learn about learning in this course?

That its much more effective to learn when you are given less restrictions on what you can and will be learning. The fact that we got the choice on what we wanted our projects to be on helped me learn a lot more and way more meaningful to me rather than being assigned an assignment that I have no enjoyment towards.

Which piece of work included in your zipped portfolio are you most proud of? Why?

My second EA, my first EA would be very close to 1st, I honestly think the EAs were a great idea, and I would hope you would continue to push the EAs in the following years. The fact that if we have any project ideas, we are interested in and we can do is a great idea to learn the language, instead of us learning something we may never use. The second EA I am most proud of is because I created an entire NodeJS driver for storing and accessing files. I can reuse it on other projects or learning something like MongoDB I think will be very beneficial for when I'm done school. Now I have everything saved and an entire CRUD driver for future projects.

What personal development from this term are you most proud of? Why? (Preference given to CS2613, but will accept answers about other courses or projects).

Learning Octave and JavaScript, before starting this class I've messed around with MATLAB and JavaScript before and hated both. In the class we had more of a focus on NodeJS and learnt Octave (same this with minimal differences) and I learnt to love JavaScript and Octave. I'm more instressed in data and machine learning programming so I really learnt to like Octave even though I had some struggles with it at the beginning of the year. So, I would say learning to like Octave and JS would be my best personal development.

**Section 5: Course Topics**
Based on your understanding at the end of this course, please rate yourself on each of the topics below on a scale of 1 (Very uncomfortable with the topic) to 4 (Very comfortable with the topic)

| Python | |
|---|---|
| - Programming Fundamentals | 4 |
| - Data Structures | 4 |
| - Functional Programming | 3 |
| - Object Oriented Programming | 4 |
| **JavaScript** | |
| - Programming Fundamentals | 4 |
| - Data Structures | 2 |
| - Functional Programming | 3 |
| - Object Oriented Programming | 4 |
| **Racket** | |
| - Programming Fundamentals | 4 |
| - Data Structures | 3 |
| - Functional Programming | 3 |
| - Object Oriented Programming | 3 |
| **Octave** | |
| - Programming Fundamentals | 4 |
| - Data Structures | 1 |
| - Functional Programming | 3 |
| - Object Oriented Programming | 1 |
| **Overall** | |
| - Selection of the correct language for a given language | 3 |
| - Giving feedback to others based on their program | 4 |
| - Mark Down Language (GitHub) | 4 |

Didn't do any data structures in Octave and the OOP I tried but had difficulty.

**Section 6: Ungrading Reflection**
Please answer the following questions about your experience in an ungraded version of CS2613. As a reminder: Upgrading is the process of removing grades from learning to focus more on feedback. Students in an ungraded class simply receive a "pass"/"fail" on pieces of work and allow students to retry and resubmit pieces of work that "fail".

How would you rate your experience with upgrading in CS2613? Please circle one of the following options.

**5**
**Pleasant**

Considering other Computer Science courses you have taken at UNB, would you say you are stressed in CS2613? Please circle one of the following options.

**I was more stressed by**
**other courses**

Reflecting on your experience in ungrading, would you take another ungraded course? Please circle one of the following options.

**I would like to take**
**another ungraded course**

Reflect on your answers above. Why did you give the ratings that you did?

I really enjoyed this learning style. I learned a lot more than I usually would and its a lot less stressful knowing that I could get a 60% rather than a 0 that I can fix or a 100 to know I did it properly. I enjoy the fact that you want us to learn and that's why there is feedback. In my other courses if I did poorly on an assignment, I would touch it till the end of the year for the exam. This structure made me learn and work harder to learn.

**Section 7: Final Grade**
Why did you assign yourself the final grade you did?

I put A+ for the reason of, I put a lot of work into the class I really enjoyed it. I would do all the assigned work well before it was due, I would do the feedback as it was given. I really enjoyed this class, I put more work into it than any of my other courses due to me enjoying it so much and challenging my self to get better in all four languages.

**Section 8: Additional Comments**
Do you have anything else that you would like to share with me?

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