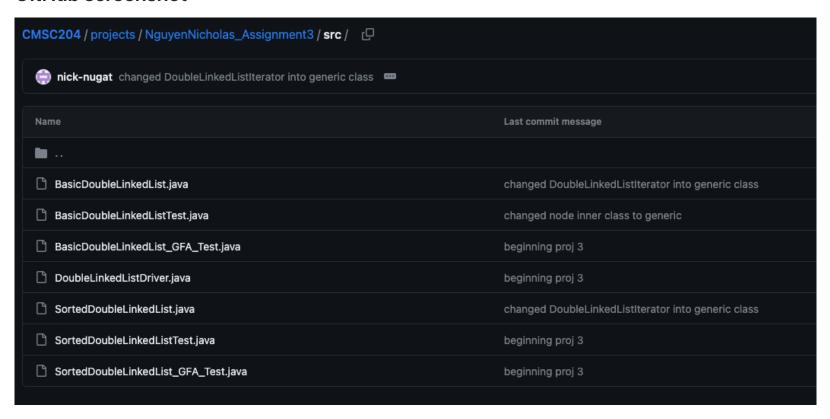
# **Final Assignment 3 Design**

- · Nicholas Nguyen
- CMSC204 GitHub Repository
- Note on website

#### GitHub screenshot



### Learning experience

I felt that this project was pretty difficult, honestly. However, sitting down and taking the time to finally understand the concepts made things a lot easier when implementing my code.

I think I had the most trouble understanding where to point nodes to in certain situations, as well as what that meant in the context of the list. I also was confused about how I would implement the add() method in the SortedDoubleLinkedList<T> class.

I feel like this project taught me more about linked list—especially doubly linked lists—and how they can be used.

# **Initial**

#### **Pseudocode**

- generic class BasicDoubleLinkedList<T> that implements Iterable interface
  - inner class Node
  - generic inner class DoubleLinkedListIterator<T> that implements ListIterator<T> (from the java.util library)
  - other methods and fields of a doubly linked list implementation
- generic class SortedDoubleLinkedList<T> that extends BasicDoubleLinkedList<T>

## **UML** diagram

