

## I Want a Development Job, Nothing Else Will Do

This code is meant to get me a job and in it I put everything I could with respect to what employers want to see. Take a look at the JavaDocs to see the comments or [github.com/wgustudenti](https://github.com/wgustudenti) to see the code for the RCM Information Suite; here's a quick summary:

- ✚ Lots of hash maps to decrease search time and for ease of coding.
- ✚ Interfaces, abstract classes, parent-child relationships among classes, plenty of inheritance.
- ✚ Time zone conversions – everything stored in UTC time and converted to the time zone on the user's machine.
- ✚ There's code to test my code, so that when I make a change, I can run the tests to decrease the chance of a release with bugs.
- ✚ Tons of experience using the debugging tools and IDE in general.
- ✚ Timer class used to keep track of all searches within the last five minutes.
- ✚ Machine learning – specifically reinforced learning – which occurs in the background as the user naturally uses the application.
- ✚ Allows the user to search for data and presents that data in an organized, ordered, pleasing, and useful way to users.
- ✚ Allows users to manipulate the way the data is presented and organized.
- ✚ Code is, of course, commented and organized; the data, business, and interface layers are appropriately separated.
- ✚ Styled with CSS.
- ✚ JDBC used to connect with SQLite database, and the code is structured in such a way that its additions could easily be made to accommodate a different database vendor.
- ✚ Made with love, with only my development tools and my search engine.

Finally, I am currently in the process of turning this application into a website with Spring Boot!

## Why is the Machine Learning Aspect Useful?

The machine learning aspect of this application is useful because there is a standardized definition for each remark code – but insurance companies often use their own made-up definitions. A payment poster then must decipher which remark code the insurance company was actually trying to indicate.

By storing which search phrases are associated with which remark codes and ordering the remark codes by which have been most used with the search phrase, the stress incurred by the payment posters is much less.

The same is true about keeping track of and allowing the user to see which remark codes are most commonly used with which other remark codes.

## Instruction Manual

Please open [Instruction\\_Manual.pdf](#) for instructions on how to operate this application.