Code Review Journal

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A code review is when someone carefully checks code to find errors, improve structure, and make sure it meets quality standards. It is an important practice for computer science professionals because it helps catch mistakes early, improves teamwork, and makes the code easier to understand and maintain. Code reviews should happen after code is written but before it is merged or finalized. This timing helps avoid bugs and makes sure the code is clean and efficient before it becomes part of the main project. Best practices include reviewing small parts of code at a time, giving helpful feedback, checking for good documentation, and making sure the code is secure and efficient.

For my code review, I will be using OBS Studio to record my screen and voice as I walk through my code. To prepare, I will write a short script to help explain what I changed and why. I will focus on the three categories in the rubric: software design and engineering, algorithms and data structures, and databases. For each part, I will explain what the original code did, what improvements I made (like switching to C++ or replacing a data structure), and how those changes show my skills. I will also use the code review checklist to make sure I talk about structure, logic, efficiency, and documentation.