

**ARTIFICIAL INTELLIGENCE USAGE DISCLOSURE FORM**

COP 3402 - System Software  
University of Central Florida

**STUDENT INFORMATION**

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<b>Assignment:</b>	HW3
<b>Due Date:</b>	10/31/2025
<b>Submission Date:</b>	10/31/2025

**IMPORTANT POLICY STATEMENT**

This form must be completed and signed for every assignment submission. Failure to complete this form accurately may result in academic penalties. **Any undisclosed use of AI tools will be considered plagiarism and will result in a zero grade for the entire assignment.**

**AI USAGE DECLARATION**

Please select ONE of the following options by checking the appropriate box:

☐ **NO AI USAGE:** I certify that I have NOT used any artificial intelligence tools, software, or services in the completion of this assignment. All work submitted is entirely my own original work.

☒ **AI USAGE DISCLOSED:** I certify that I HAVE used artificial intelligence tools, software, or services in the completion of this assignment. I have provided complete and accurate disclosure of all AI usage in the accompanying markdown file.

**CERTIFICATION AND SIGNATURE**

I certify that the information provided above is complete, accurate, and truthful. I understand that:

- Any undisclosed use of AI tools constitutes academic dishonesty and plagiarism
- Providing false information on this form is a violation of the academic integrity policy
- This assignment will be evaluated according to the AI usage policy outlined in the course syllabus
- Failure to properly disclose AI usage will result in a zero grade for the entire assignment

<b>Student Signature:</b>	<i>Rohaam Mansoor</i>	<b>Date:</b>	10/31/2025
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## AI USAGE DISCLOSURE EXAMPLES

Use these examples as a guide for the level of detail required in your markdown disclosure file.

### FIELD DESCRIPTIONS AND EXAMPLES

<b>Tool Name</b>	<b>Examples:</b> ChatGPT, Claude, GitHub Copilot, Gemini, Perplexity, Bing Chat
<b>Version/Model</b>	<b>Examples:</b> GPT-4, GPT-4 Turbo, GPT-5, Claude Sonnet 3.5, Claude 4, GitHub Copilot (GPT-4)
<b>Date(s) Used</b>	<b>Examples:</b> January 15, 2025; January 18, 2025; January 20, 2025
<b>Specific Parts</b>	<b>Examples:</b> Code debugging for functions calculateHash() and validateInput(); Literature review for Section 2.3; Writing assistance for conclusion paragraph
<b>Prompts Used</b>	<b>Examples:</b> "Help me debug this Python function that calculates SHA-256 hashes"; "Explain the difference between symmetric and asymmetric encryption"
<b>AI Output</b>	<b>Examples:</b> AI provided corrected code with explanations of the logic errors; AI generated a comparison table of encryption methods
<b>Verification</b>	<b>Examples:</b> Tested the corrected code with sample inputs; Verified encryption explanations against textbook; Implemented suggested security measures
<b>Multiple Uses</b>	<b>Examples:</b> First asked for algorithm explanation, then requested code example, finally asked for optimization suggestions
<b>Reflection</b>	<b>Examples:</b> I learned about proper error handling techniques and improved my debugging skills; Understanding of cryptographic concepts was enhanced

### DETAILED EXAMPLE: Code Debugging

**Tool Name:** ChatGPT

**Version/Model:** GPT-4

**Date(s) Used:** January 15, 2025

**Specific Parts:** Code debugging for the `calculateHash()` function in Programming Assignment 2, specifically fixing the SHA-256 implementation that was producing incorrect hash values.

**Prompts Used:** "I have a Python function that's supposed to calculate SHA-256 hashes, but it's giving me wrong results. Here's my code: [code snippet]. Can you help me identify what's wrong?"

**AI Output:** AI identified that I was not properly encoding the input string to bytes before hashing, and provided a corrected version of the function with proper UTF-8 encoding.

**Verification:** Tested the corrected function with the provided test cases from the assignment; Verified the hash outputs against online SHA-256 calculators; Cross-referenced the encoding explanation with the Python hashlib documentation

**Multiple Uses:** Had a 3-turn conversation: initial debugging request → follow-up about persistent issues → request for conceptual explanation

**Reflection:** I learned about the importance of proper data type handling in cryptographic functions and gained a better understanding of Python's string encoding system. This helped me avoid similar issues in subsequent hash-related functions.