

Secure Coding (CNT 4419)
Assignment IV

Objective: To improve understanding of the most significant software vulnerabilities.

Due Date: Sunday, May 3, 2026, at 11:59pm. No late submissions will be accepted.

Assignment Description

Complete this assignment by yourself.

For this assignment you will study:

1. Mitre 2025 CWE Top 25 Most Dangerous Software Weaknesses (https://cwe.mitre.org/top25/archive/2025/2025_cwe_top25.html)
2. OWASP Top 10:2025 (<https://owasp.org/Top10/2025/>)
3. OWASP Top 10 for LLM Applications 2025 (<https://genai.owasp.org/llm-top-10/>)
4. **Optional:** OWASP Top 10 for LLMs — A Pentester's Practical Guide (<https://dev.to/latentbreach/the-owasp-top-10-for-llms-a-pentesters-practical-guide-2b8>). This fourth reading is optional for this assignment but may help with understanding the previous reading.

Read through at least the first 3 sites and rankings listed above, and optionally the fourth.

For each ranking site, click on the links explaining the vulnerabilities and read the descriptions, including the overviews and examples of the vulnerabilities, as well as potential mitigations.

Write a 5-to-9-paragraph essay in which you explain, in your own words, what you learned or got out of the readings. If you learned nothing from the readings, explain why. Submit your essay in a PDF or text file (with file extension pdf or txt) to Canvas. As always, essays will be graded based on factors described in the syllabus.