**Summer Working Connections Ohio 2025**

**Final Assessment – Secure Programming with Python**

**Credly Badge Criteria**

NITIC requires a score of 80% or better to earn the associated Credly badge.

Rubric:

|  |  |  |  |
| --- | --- | --- | --- |
| Item# | Description | Criteria | Points |
| 1 | GitHub Repository Setup | Private repo created with correct naming convention; README includes required personal info; instructors invited as collaborators. | 10 |
| 2 | Functional Python Program | Program tracks failed login attempts across multiple users and correctly enforces account lockout after max attempts. | 30 |
| 3 | Secure Logging and Encryption | Lockout events are logged to a file, and user names are encrypted using Fernet. Includes a generated fernet.key. | 25 |
| 4 | Code Quality and Practices | Code is readable, logically structured, uses defaultdict, avoids bad practices like bare except, and includes safe dictionary access. | 15 |
| 5 | Demo and Submission | Program was demonstrated to an instructor (or shows evidence of working); notebook saved and uploaded to GitHub. | 20 |
|  |  |  | **Total: 100** |