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CSN 190

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***GitHub Project Research***

***Topic 1: Automated Vulnerability Assessment Tool Development***

GitHub Project 1:

* **Citation:** kaster-san. (2025). *Penhelper. GitHub*. https://github.com/kaster-san/Penhelper
* **Type:** Security Tool
* **Synopsis:** This project is a Python-based automation tool designed for web security assessment, penetration testing, and vulnerability detection. It has some modules on technological detection, subdomain enumeration, endpoint detection, SQL injection testing, security header analysis, DNS reconnaissance, and service scans. Penhelper has 3 stars, 1 fork, and was last updated 2 years ago.
* **Link:** https://github.com/kaster-san/Penhelper
* **Relevance:** 5/5 – This source word for word follows what my topic is about!

GitHub Project 2:

* **Citation:** Dibsy. (2018). *SPSE: SecurityTube Python Scripting Expert Course Solutions and Tools*. GitHub. https://github.com/dibsy/SPSE
* **Type:** Educational Framework
* **Synopsis:** The SPSE repo is a automated Python tool collection for vulnerability assessment and exploitation while offering supporting hands-on security scripting as well as solutions to their course problems. This project allow users to automate various security tasks and gain practical experience in Python applied to security but, it requires familiarity with Python and security concepts. The dependencies include Python and relevant libraries for networking and system tasks. The repository has 124 stars, 51 forks, and it’s been 9 years since the last update.
* **Link:** https://github.com/dibsy/SPSE
* **Relevance:** 5/5 – I believe this is a strong source that teaches through modules how to create and use the tool while also studying it’s exploitation.

***Topic 2: Digital Evidence Collection for Mobile Devices***

GitHub Project 1:

* **Citation:** Mike Royal. (2025). *Digital Forensics Guide*. GitHub. https://github.com/mikeroyal/Digital-Forensics-Guide
* **Type:** Educational Framework
* **Synopsis:** This resource covers digital forensics, including tools, libraries, and frameworks for computers, mobile devices, network, and database forensics. Its main feature is categorized sections on certifications, playbooks, virtualization, file systems, and security tools, making it valuable for both beginners and professionals in the forensic field. This guide provides references to many software like Autopsy, The Sleuth Kit, and Mobile Device Investigator. The project has 1.3k stars, 223 forks, and was last updated 2 years ago.
* **Link:** https://github.com/mikeroyal/Digital-Forensics-Guide
* **Relevance: 5/5 –** This repo gives more than just mobile device digital forensics, giving a wide range of perspectives on how data is gathered.

GitHub Project 2:

* **Citation:** 6abd. (2025). *Horus*. GitHub. https://github.com/6abd/horus
* Type: Forensics Tool
* **Synopsis:** This tool uses features like IP and MAC address tracking, phone number lookup, crypto-wallet tracing, virus scanning, and file encryption. This is all provided as a terminal-based toolkit for cybersecurity and investigative work. Limitations include dependency on Python 3.11 and requirements for API keys (some are paid like Shodan). The project has 363 stars, 42 forks, and was updated 10 months ago.
* **Link:** https://github.com/6abd/horus
* **Relevance: 4/5 –** This tool has various of features which gives insight into what a toolkit would look like when tasked with gathering digital evidence.