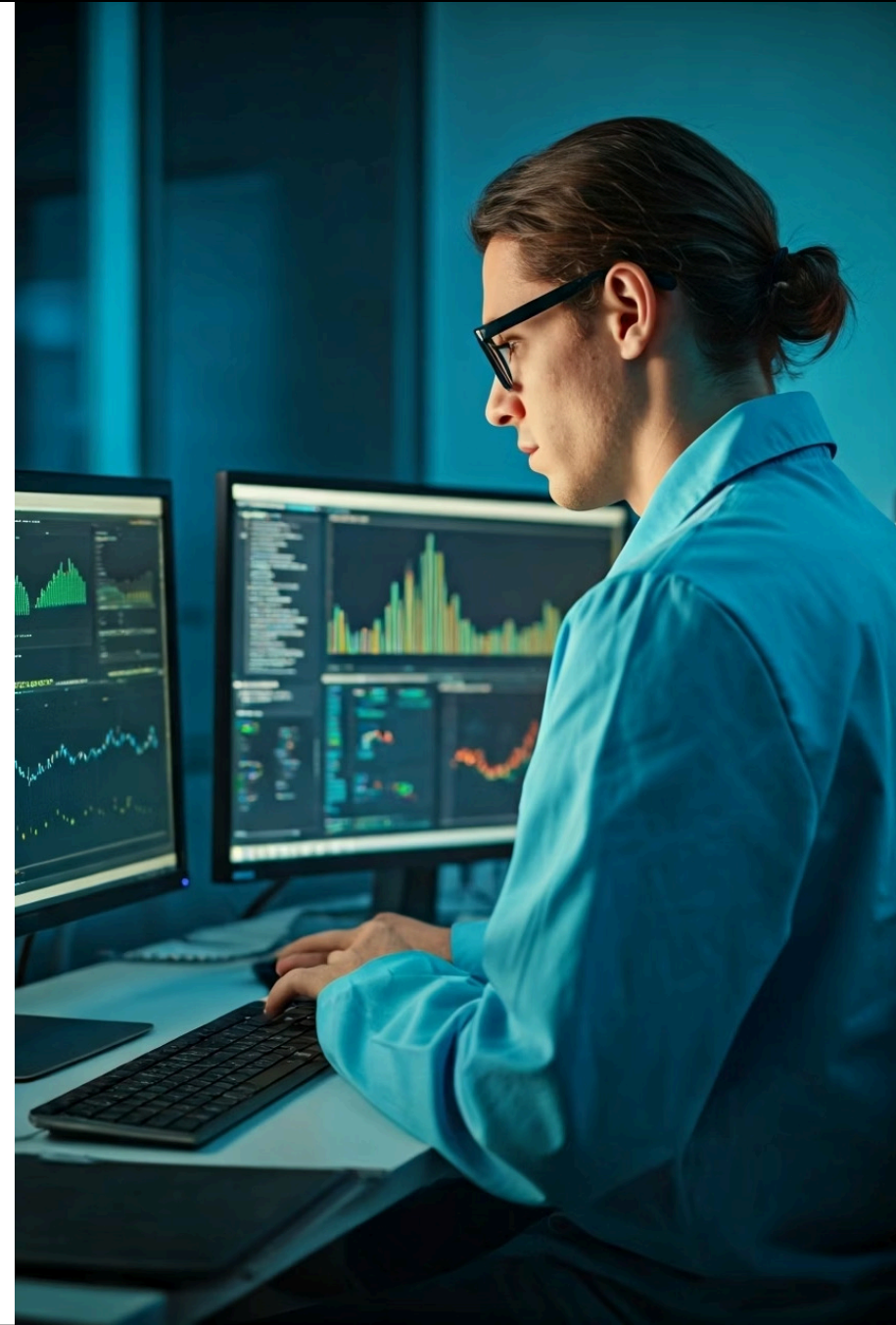
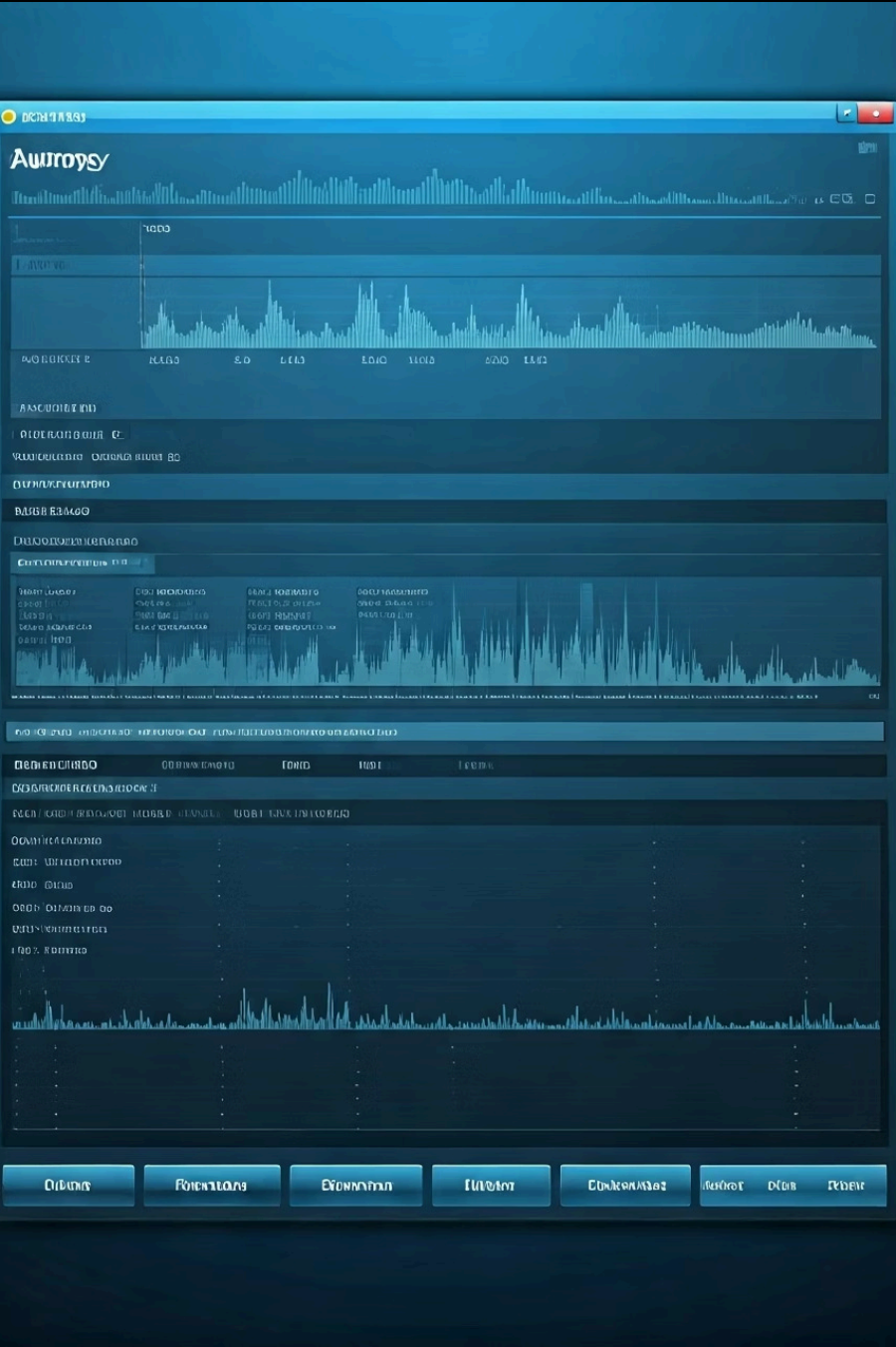


Ultimate Forensics Toolkit

Digital forensics tools empower investigators to uncover crucial evidence. This presentation explores the most effective tools for modern cyber investigations.





Autopsy: The Digital Investigator's Workbench



Comprehensive Analysis

Examines disk images, mobile devices, and diverse digital media formats.



Artifact Recovery

Extracts browser history, registry data, emails, and chat messages.



Timeline Construction

Creates chronological sequences of events across multiple sources.



Keyword Searching

Locates specific terms across vast datasets with advanced filtering.



Specialized Autopsy Add-on Modules

Media Analysis

- Video Triage splits videos into thumbnails
- Perceptual Hash creates image fingerprints

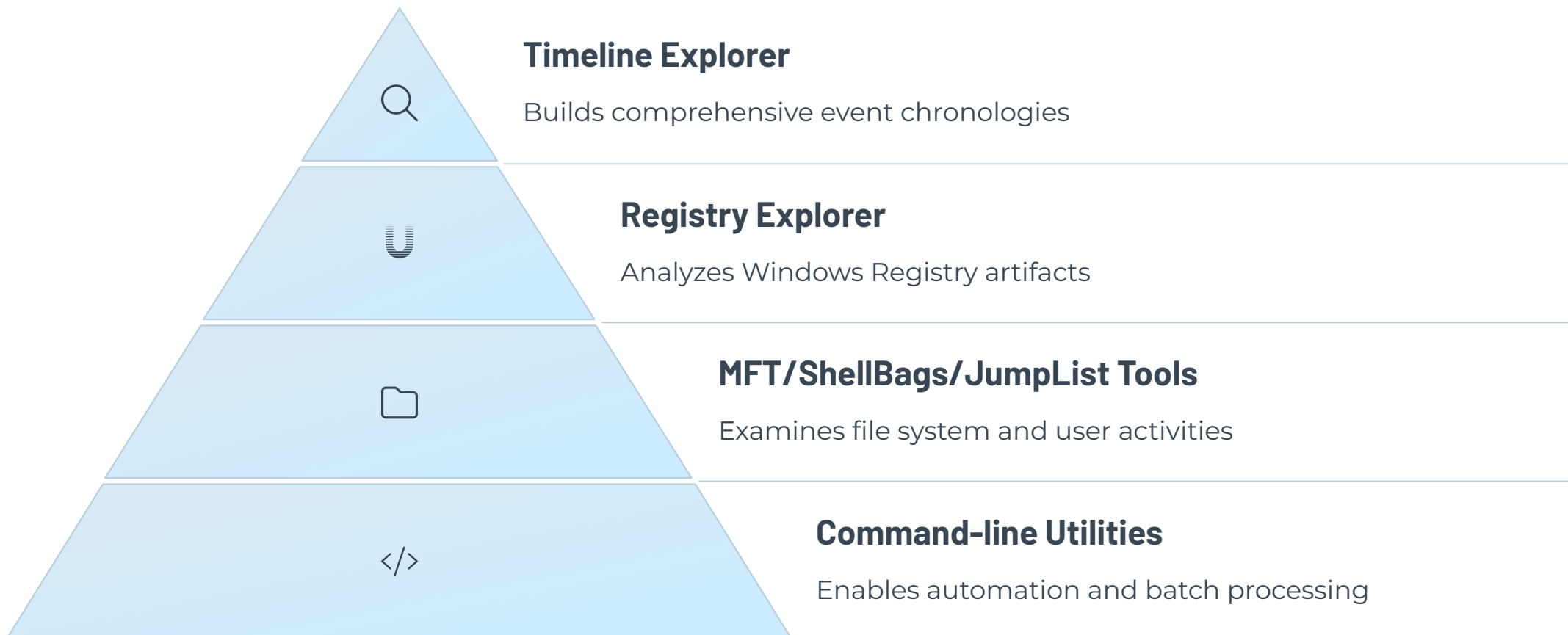
Advanced Filtering

- Code Signing Certificate Verification
- Golden Image Comparison identifies changes

Content Processing

- Text Gisting analyzes foreign-language content
- Log Forensics extracts Windows log data

Eric Zimmerman's Forensic Suite



Registry and Execution Analysis Tools



Amcache Parser

Identifies executed programs and unassociated files. Reveals application activity even after deletion.



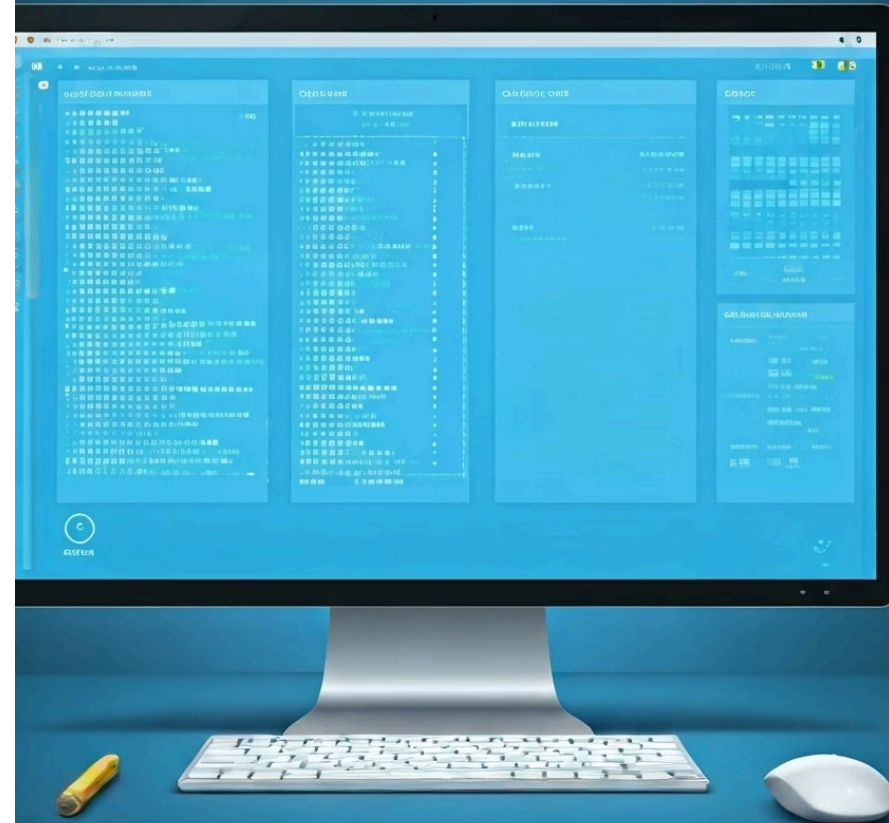
AppCompatCacheParser

Extracts ShimCache data with executable paths. Provides timestamps for program execution evidence.



WxTCmd

Parses Windows 10 Timeline database. Recovers 30-day history of user activities.



User Activity Forensics Tools

ShellBags Explorer

Tracks folders users interacted with.
Reveals navigation even after deletion.

MFTExplorer

Analyzes file table entries. Recovers
information about deleted files.



JumpList Explorer

Parses recently used files. Shows
application-specific user tasks.

Timeline Explorer

Correlates events chronologically.
Enables complex filtering of
activities.

Disk-Level Analysis Tools

MH-Nexus HxD

A powerful hex editor for examining raw data at the byte level.

- Opens large files efficiently
- Calculates checksums
- Performs binary comparisons
- Enables memory editing

Disk Editor Functions

Provides low-level access to critical disk structures.

- Examines MBR and GPT
- Analyzes file system metadata
- Recovers damaged partitions
- Inspects hidden sectors

Data Sanitization and Security

Identify Media

Catalog all storage devices requiring sanitization. Document media types and capacities for verification.

Select Erasure Method

Choose appropriate KillDisk sanitization standard. Different standards offer varying security levels.

Verify Completion

Confirm successful data destruction. Generate certificates for compliance documentation.

