JOECAT

INDEPENDENT RESEARCH
AUSTIN, TEXAS · NOV 2026

WHO AUTHORIZED IT?
WHAT DOES THE RECORD SHOW?
WHO CAN VERIFY IT?



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SECURITY RESEARCH · DIGITAL PROVENANCE · INSTITUTIONAL INVESTIGATIONS

DOCUMENTED | INFERRED | UNKNOWN

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01 PROFILE

2,000+	552	138 / 137	09.28.26
federal FOIA and state open-records requests designed and tracked	passing automated tests in agent-authority	documented invariants / covered by executable adversarial checks	approved, Anthropic Cyber Verification Program

Independent researcher and technical systems designer working across AI-agent security, digital provenance and institutional accountability. I specify, direct and test AI-assisted software for agent authority, execution records and evidence preservation, and I run vulnerability research and public-records investigations from primary sources. One question runs through all of it: who held authority, what actually happened, and can an independent person verify it.

02 FLAGSHIP RESEARCH

PROTOTYPE | NOT INDEPENDENTLY AUDITED **agent-authority**

Bounded, revocable authority for a software agent, producing signed authorization and execution records built for independent verification.

552 automated tests passing. 138 documented invariants; 137 covered by executable adversarial checks. One invariant still has no adversarial check.

Passing tests show that the tested conditions passed, not that the system is free of defects. Adversarial testing on October 3, 2026 found a defect classed as critical; it and the system's limits are documented in a limits register.

A valid signature proves something about a record and its key. It does not prove the real-world event happened as recorded.

Related: **paymaster** attributes AI spend to the agent, its authority and the client. **hash2trace** keeps tamper-evident records of measurements and decisions.

03 SECURITY RESEARCH

PERSONAL **HackerOne, account joecattt:** seven reports. One resolved, three informative, three duplicate. Full history on the profile.

TEAM **Department of Defense disclosure program,** as a researcher on HackerOne team account CIEANC0DE, which submitted thousands of reports, most of them unpaid. Team volume, not my personal count.

DIRECT **Verizon security incident team, Feb 2026:** access-control and data-exposure issue, reported outside HackerOne.

PROGRAM **Anthropic Cyber Verification Program:** approved September 28, 2026.

STATUS DESCRIBES IMPLEMENTATION MATURITY, NOT INDEPENDENT SECURITY VALIDATION.

04 AI INFRASTRUCTURE

IN USE **Hermes, agent orchestration.** Model routing, dispatch, execution logging, reviewer gating, and a completion gate that blocks "done" without evidence.

IN USE **MCP and operational controls.** Read-only tool interfaces, capability registries, audit logging, mission-control view of agents, runs and health.

IN DEVELOPMENT **ARIES, distributed local AI.** Mac plus an Alienware RTX workstation; local inference with Ollama and llama.cpp and task-specific routing. Federation is not finished.

INITIATIVE **Project Sovereign.** Local-first AI, model portability, provider independence, private data handling and preservation of evidence.

In use = operating in my own infrastructure, not customer-facing production.

05 EVIDENCE & INFORMATION

Public-records operation. A tracked program of 2,000+ federal FOIA and state open-records requests (SEC, Treasury OIG, Dept. of Education, DOJ components, state agencies): custodian identification, targeted requests, deadline tracking, reconciliation of conflicting agency answers.

IN DEVELOPMENT **Document intelligence.** Local archive indexing and retrieval across storage roots, with file hashing and source references, built for resumable processing and local-model enrichment.

IN USE **Situational awareness.** A Raspberry Pi display combining maps, news, government deadlines, docket monitoring and records-request status.

PROTOTYPE **Court Companion, StateDocket.** Docket research and hearing-preparation tools for self-represented litigants.

06 METHOD & RESEARCH

Evidence-centered investigation: name the claim, find primary sources, reconstruct the relationships, separate documented from inferred from unknown, test rival explanations, and keep the evidence so someone else can redo it.

Procedural and statutory research, appellate-record preparation, amicus research, timelines, and source and citation verification.

Selected independent research, 2024: *Human Rights in the Age of Cybernetics*; *Wage Policies and Housing Affordability*; *Eradicating the Silent Suffering of Student Hunger*.

07 AUTHORSHIP & IP

JoeCat identity established in 2002. Music and digital-distribution work from 2008: recording, rights administration, metadata, licensing and creator-compensation research through iDream Music Label / JOECAT, LLC.

Formally trained vocalist. Placements and features associated with NBA, MTV and BIG3, including the BIG3 basketball anthem "Swish." Credits and links at joecattt.com.

JOECAT® · U.S. Reg. No. 6057783 · Class 41
Filed Oct 10, 2019 · Registered May 19, 2020 · Owner: JoeCat, LLC

08 EXPERIENCE

CEO / Principal Strategist, JOECAT, LLC 2008 – Present
Directs research, strategy and prototypes across AI, cybersecurity and civic systems. Writes the requirements, architecture, constraints and acceptance tests for AI-assisted builds, then judges results by adversarial testing and evidence review.

Founder & Executive Director, Dreams Over Dollars Foundation (501(c)(3)) 2022 – Present
Board-governed nonprofit for educational access, research and community programs. Governance, compliance, program development and reporting.

Consumer Data Analytics Extern, Beats by Dre Sep – Oct 2024
Gen Z consumer research on authenticity, wellness and sustainability; supported AI-driven personalization research.

Food Access & Resource Specialist, Austin Community College Nov 2023 – Apr 2024
Helped administer a $30,000 Central Texas Food Bank grant: food distribution, campus markets, data-informed outreach.

Security Engineer Consultant, Bike, Inc. (ZroBlack LLC) Aug 2019 – Mar 2021
Mobile-device security, reverse engineering and high-volume data-erasure workflows. Built tools that identify IMEI lock status, carrier assignment and resale eligibility.

Tour Marketing & Operations, Day One Promotions 2019 – 2020
Multi-state tour marketing and operations; thousands of tickets sold across Texas, California and Arizona.

09 EDUCATION & TRAINING

Austin Community College, Associate Degree, American Government & Politics, 2023–2025. Administrative law, constitutional structure, public accountability.

Del Mar College, Sound Recording Technology, 2012–2013.

104th Community Police Academy, graduate.

10 CAPABILITIES

Security research and disclosure · adversarial test design · agent authority and provenance · systems specification and architecture · direction of AI-assisted development · local AI infrastructure · OSINT and public-records research · evidence reconciliation · audit logging and data integrity · mobile-device reverse engineering · digital-media metadata and rights · grant compliance

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