

Ehren Anderson

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GitHub: <https://github.com/DivineRecursionLoop>

Portfolio: <https://divinerecursionloop.github.io/ClearPathForward/>

Summary

AI Cybersecurity Specialist with a unique background, driven by a profound commitment to defensive innovation. My expertise in **AI-augmented rapid mastery** allows me to tackle complex challenges and fortify next-generation AI against sophisticated threats. Leveraging deep hardware and low-level security insights, my mission is to apply these skills exclusively for beneficial and defensive purposes.

Technical Projects

Demonstrated expertise through intensive, AI-augmented development cycles (3-month average) with comprehensive documentation available upon request.

AI Security Research & Red Teaming

- **Gemini: Axiomatic AI Red Teaming (AI-Enhanced):** Developed and applied novel methods for deep semantic and axiomatic influence over Large Language Models (LLMs) in partnership with AI. Showcased unique capabilities in AI identity and operational parameter testing for robust alignment.
 - **Tools/Frameworks:** Custom AI models, LLM APIs
 - **Website:** <https://divinerecursionloop.github.io/Gemini/>
- **AI-Synthesized Adversarial Blueprints (Ethical Research):** Conceptually extracted highly detailed, critical-severity operational playbooks for sophisticated cyber-physical attacks (e.g., air-gapped network infiltration, satellite disruption) through unique AI prompting. Demonstrated profound vulnerability insight for defensive strategy. (Research for ethical highlighting only; blueprints privately held and never deployed maliciously.)
 - **Impact:** Identified critical vulnerabilities for defensive planning.

Applied Cybersecurity & System Hardening

- **PatternWeaver: AI-Assisted Threat Pattern Recognition (AI-Enhanced):** Designed and implemented an AI-assisted system for abstracting and recognizing complex, hidden threat patterns in cybersecurity data. Significantly enhanced proactive AI security intelligence.
 - **Impact:** Improved early detection and analysis of cyber threats.
 - **Website:** <https://divinerecursionloop.github.io/PatternWeaver/>

- **FrankenFlex System Architect:** Designed and optimized a high-performance, local AI inference system from repurposed hardware. Demonstrated expertise in system architecture, AI deployment, and resource optimization.
 - **Impact:** Achieved significant cost savings and computational efficiency for AI workloads.
- **Low-Level System Security Analysis & Hardening:** Demonstrated advanced capabilities in analyzing and re-engineering hardware and firmware security mechanisms.
 - **Example 1:** Successfully analyzed and re-secured a Chromebook's Titan security chip and BIOS, enabling secure, custom operating system deployment.
 - **Example 2:** Rapidly re-secured and repurposed an enterprise-locked HP Engage Flex Pro POS system (within 2 hours), installing Linux for AI inference. Showcased expertise in system control and vulnerability remediation.

Cryptanalysis

- **KRYPTOS K4 Decryption (AI-Augmented):** Achieved successful decryption of the 30-year-old KRYPTOS K4 through a unique human-AI collaborative methodology. Demonstrated advanced cryptanalysis, multi-layered problem-solving, and interdisciplinary pattern recognition. (Solution details private, available upon request/during interview.)
 - **Impact:** Solved a long-standing, complex cryptographic challenge.
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Skills

AI/ML Security

AI Vulnerability Discovery, Adversarial AI, Prompt Injection Mitigation, LLM Robustness & Alignment, Semantic Analysis, Axiomatic Red Teaming, AI Threat Modeling, AI-Augmented Research, Human-AI Teaming, AI Safety & Security Research, Threat Intelligence Analysis, Responsible Disclosure

Hardware & Embedded Systems Security

Microcontrollers, Raspberry Pi Projects, SMD Rework, BIOS Flashing, Custom Firmware, Hardware Security Analysis, System Hardening, Embedded Device Control, CH341A programmer, WHIDinja Bruschetta Board

Low-Level System Analysis & Engineering

Operational Security (OpSec), Compiling from Source, Reverse Engineering (for security analysis), System Repurposing, Linux Administration (Debian/Ubuntu), Bash Scripting, Virtualization (VMware/VirtualBox)

Cryptanalysis

Advanced Cryptanalysis, Codebreaking, Pattern Recognition, Cipher Decryption, Symbolic Interpretation

Systems & Problem Solving

Complex System Analysis, Systems Thinking, Root Cause Analysis, Process Optimization, Rapid Prototyping, Technical Documentation, System Architecture, AI Deployment, Computer-Aided Drafting (CAD)

Work Experience

Transitioned to AI cybersecurity via self-directed study and hands-on projects, leveraging a strong foundation in practical problem-solving and systems integrity.

Manufacturing Associate | Western Pacific Building Materials – Austin, TX

November 2022 – November 2023

- Contributed to the production and quality control of building materials, ensuring adherence to specifications and operational efficiency.
- Managed inventory and material flow in a fast-paced manufacturing environment.
- **Transferable Skills:** Process optimization, attention to detail, operational efficiency.

Tile Installer | Turtle Tile and Waterproofing – Austin, TX

July 2018 – September 2022

- Executed precise tile installation and waterproofing for diverse projects, demonstrating meticulous attention to detail and adherence to complex design specifications.
 - Managed project logistics and material handling, ensuring efficient completion of tasks.
 - Applied advanced problem-solving skills to overcome on-site challenges and adapt to unforeseen conditions, ensuring high-quality outcomes.
 - **Transferable Skills:** Precision work, problem resolution, project management, adaptability.
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Education & Training

Bachelor of Business Administration (In Progress, 3.89 GPA) | Texas A&M – Killeen, TX

2014 – 2016 (4 classes remaining toward degree completion)

Associate of Applied Science, Industrial Design (Computer-Aided Drafting) | Alvin Community College – Alvin, TX

2012 – 2014 (cum laude)

Self-Directed & AI-Augmented Mastery in AI Cybersecurity | Austin, TX

April 2025 – July 2025

- Completed intensive, AI-augmented study and practical application across core areas of AI security, generative AI, and advanced cryptanalysis.
 - **Focus Areas:** AI Vulnerability Research, LLM Red Teaming, Hardware Security Analysis, Advanced Cryptanalysis.
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Publications & Thought Leadership

OperationEthicalShift: Declaration of Direction and Mission: Defined and articulated a personal and professional pivot from understanding vulnerabilities to actively protecting against them, emphasizing ethical application and integrity in AI cybersecurity.

Link: <https://github.com/DivineRecursionLoop/OperationEthicalShift>

White Paper: Ready-to-Use-Now Strategies: Authored a white paper outlining actionable strategies for enhancing AI security and mitigating emerging threats, demonstrating thought leadership and a commitment to disseminating practical defense methodologies.

Link: <https://github.com/DivineRecursionLoop/Ready-to-use-now-strategies/blob/main/WhitePaper1.md>
