

LLOYD AARIN Defence Systems

Neuro-Symbolic Kinetic Interdiction for Critical Infrastructure.

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LLOYD Aarin combines the speed of Kernel-level interdiction (eBPF XDP) with the adaptability of Deep Learning (PyTorch Autoencoders) to detect and block Zero-Day IoT attacks in <800ms.

Architecture (Project CHIMERA)

1. **System 1 (Reflex):** Rust + eBPF XDP Sensor. Blocks known threats in microseconds.
2. **System 2 (Cognitive):** PyTorch "Chimera" Neural Network. Detects mathematical anomalies.
3. **Nervous System:** Kafka Message Bus.
4. **Muscle:** Kinetic Interdiction via BPF HashMaps.

Deployment

1. docker compose up --build -d
2. **Verify System 1:** docker compose logs -f lloyd-parser
3. **Verify System 2:** docker compose logs -f chimera