

Aaron W. Storey

AI Research Engineer | Trustworthy Agentic Systems | Verification Engineering

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PROFESSIONAL SUMMARY

AI research engineer and PhD candidate developing multi-agent systems, verification workflows, and research software. Work spans model orchestration, agent memory, biometric evaluation, and autonomous navigation. First author on three accepted conference papers and coauthor of a published systematic review. U.S. Army veteran with 15 years of technical operations and leadership experience.

TECHNICAL SKILLS

Agentic AI: Multi-agent systems, model orchestration, Model Context Protocol (MCP), tool use, agent memory, knowledge graphs, provenance, LLM evaluation.

ML and evaluation: Python, PyTorch, scikit-learn, Vision Transformers, face verification, face-image quality, calibration, uncertainty, explainable AI, reproducible experimentation.

Systems: SQL, R, Go, FastAPI, DuckDB, Docker, Linux, Git; ROS2, OpenCV, SLAM, state estimation, sensor fusion, GNSS-denied navigation.

RESEARCH AND ENGINEERING EXPERIENCE

Independent AI Research Engineer

Aug 2025 – Present

Kymera Systems LLC

San Antonio, TX

- Develop agentic and multi-agent research prototypes combining heterogeneous models, structured tool use, and evaluation workflows.
- Design verification workflows that track intermediate artifacts, provenance, persistent state, and the evidence supporting generated conclusions.
- Build experimental agent-memory and knowledge-representation systems, local AI infrastructure, and open-source research tools.

Graduate Research Assistant, Autonomous Systems and AI

Jun 2026 – Present

Clarkson University, AVHBAC Laboratory

Remote

- Develop simulation and evaluation workflows for GNSS-denied navigation, state estimation, sensor fusion, and lunar surface perception using Python, ROS2, and OpenCV.
- Investigate visual odometry, pose-graph optimization, and terrain-referenced localization for autonomous systems operating in physically constrained environments.
- Released **ofiqpy** on PyPI under AVHBAC, implementing the 27 face-image-quality components exposed by BSI OFIQ v1.1.0 plus its unified quality score.

Graduate Research Assistant, Trustworthy AI and Biometrics

Jun 2025 – May 2026

Clarkson University, Center for Identification Technology Research (CITeR)

Remote

- Conducted face-image-quality and biometric evaluation research involving ISO/IEC 29794-5, attribution faithfulness, calibration, uncertainty, and data quality.
- Built reproducible Python workflows for counterfactual analysis, perturbation testing, statistical evaluation, and standards-oriented measurement; contributed research manuscripts and protocols.

EDUCATION

Clarkson University

Jan 2025 – Present

Ph.D. Candidate, Computer Science; GPA 3.98/4.00.

Maryville University of Saint Louis

Dec 2024

M.S., Artificial Intelligence; GPA 3.97/4.00.

American Military University

2017

B.S., Information Technology.

SELECTED RESEARCH SOFTWARE

circle: Built a GitHub-native research collaboration framework in Go with shared memory, artifact tracking, review gates, a git-native knowledge graph, and an MCP server exposing 22 tools to AI assistants.

okf-tools: Built Python tools to validate, lint, migrate, and index Open Knowledge Format bundles, detecting broken relationships and semantic failures that basic conformance checks miss.

ofiipy: Released a Python implementation of the fixed BSI OFIQ v1.1.0 quality-assessment profile, with configuration and model integrity checks and a live C++ comparison workflow; PyPI v0.2.0, August 2026.

lunar-terrain-sidecar: Developed lunar terrain authoring and preprocessing software for Godot robotics simulation using LOLA/PGDA terrain products, ephemeris-derived illumination, and provenance controls. Archived at doi:10.5281/zenodo.22014046.

swinvit-face-verification: Built a common evaluation interface for SwinFace and ArcFace encoders using identical aligned inputs, checksum-verified model provisioning, and public LFW benchmark data.

medicaid-kg: Built a knowledge-graph and geospatial exploration system for a 227-million-row HHS Medicaid provider-spending dataset using DuckDB, NetworkX, FastAPI, React, and agent-assisted querying.

SELECTED PUBLICATIONS

Published. Kia, A.; Storey, A. W.; Imtiaz, M. *Advanced Hardware Security on Embedded Processors: A 2026 Systematic Review*. Electronics 15(5), 1135 (2026). doi:10.3390/electronics15051135.

Accepted. Storey, A. W.; Imtiaz, M. *A Three-Channel Audit of the Biometric Evidence Chain*. IEEE AIBThings 2026.

Accepted. Storey, A. W.; Kia, A.; Imtiaz, M. *LLM on the Edge: A 2026 Perspective*. IEEE AIBThings 2026.

Accepted. Storey, A. W.; Ahmed, A.; Sukhdeve, Y.; Imtiaz, M. H.; Mondal, S. *Nonparametric Template Persistence Curves for Child Face Recognition via Beta Generalized Additive Models*. IEEE UEMCON 2026.

EARLIER TECHNICAL AND OPERATIONAL EXPERIENCE

Defense Health Agency, San Antonio, TX Jul 2013 – Jan 2018
Data and Operations Analyst (Sep 2015–Jan 2018); Educational Technology Specialist (Jul 2013–Sep 2015). Analyzed operational data, coordinated information-system projects, and developed technology-enabled healthcare training and simulation.

United States Army Aug 2002 – Jan 2018
Technical leadership, IT strategy, logistics, and healthcare operations assignments in the United States, Germany, and Afghanistan. Supervised personnel, managed equipment readiness, and developed communications strategies supporting multinational operations.

Career Transition Jan 2018 – Jul 2023
Personal responsibilities and self-directed technical study preceding graduate AI education.

TEACHING, SERVICE, AND CREDENTIALS

Clarkson University: Nine guest lectures and course development for EE622 Advanced Biometrics (2025); invited seminar, *Behavioral Control Surfaces in Large Language Models* (January 2026); three-session *Navigating Worlds Without GPS* series (June–July 2026).

100 Days of Machine Learning: Co-created a free, 35-lesson curriculum.
CompTIA Security+ | IEEE Member since 2024 | Reviewer, IEEE AIBThings 2026.