

Noah Solorzano

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Skills

- Languages: [Python](#) | [Java](#) | [C++](#)
- AI / ML: [PyTorch](#) | [scikit-learn](#) | [Computer Vision \(MediaPipe, OpenCV\)](#) | [Model Integration](#) | [ML Pipelines](#)
- Distributed Systems: [gRPC](#) | [Protobuf](#) | [ActiveMQ](#) | [Pub/Sub](#) | [Event-Driven Architecture](#)
- MLOps / Infra: [Docker](#) | [Podman](#) | [Kubernetes](#) | [Helm](#) | [GitLab CI/CD](#) | [Poetry](#)

Work Experience

AI/ML Software Engineer — Lockheed Martin AI Center

July 2025 – Present

- Key engineer for [AI Fight Club \(AIFC\)](#), a distributed AI simulation and evaluation system running on containerized Kubernetes clusters, enabling scalable multi-agent experimentation.
- Designed and implemented AIFC's bidirectional UCI layer by [turning the raw ICD specification into a production-grade AFSIM extension](#) that translates internal scripting events into UCI messages and ingests external UCI commands to drive platform behavior in real time.
- Designed and operated the [Kubernetes + Helm](#) stack for AI simulation workloads (AFSIM, AI agents, ActiveMQ, CAL servers), including Rancher-based cluster management and custom routing for high-throughput [UDP and TCP](#) traffic (UCI/DIS/GSI).
- Authored and maintained [Dockerfiles](#), container build pipelines, automated artifact publishing, and deployment workflows.
- Collaborated with ML teams to refine [model I/O schemas](#), improve agent controllability, and validate behaviors across adversarial scenarios.
- Contributed to the official [AIFC Participant Guide](#), including architecture diagrams, onboarding process, standard messaging compliance requirements, and integration best practices.
- Provided engineering support during [AIFC Hackathon](#), debugging issues and design guidance for participating teams.

Software Engineer — Top Secret Clearance — Lockheed Martin ADP

Apr 2023 – July 2025

- Maintained and extended a modeling & simulation suite of 25+ [Java/C++ microservices](#), containerized with Docker/Podman and orchestrated with Kubernetes.
- Built internal automation tools for building, packaging, versioning, Git operations, and dynamic code replacement — reducing developer time by [2+ hours](#).
- Enhanced the Lightweight Container Framework (LWCF), removing rebuild requirements for debug-mode switching and saving [10+ minutes](#) per test cycle.
- Standardized cross-service communication using [UDP](#) and [gRPC](#), improving timing alignment and reliability.
- Integrated supplier emulators, AFSIM, and Joint Simulation Environment (JSE) into distributed mission systems environments.
- Led an AR-based cockpit simulation initiative using [Varjo](#) headsets and embedded HUD/HMD overlays.
- Diagnosed complex networking and performance issues in containerized [Linux](#) environments, increasing stability of long-running simulations.
- Served as [Scrum Master](#), managed Jira planning artifacts, and coordinated multi-team deliverables.

Education

University of Texas at Arlington, Fort Worth, TX

M.S. in Software Engineering, GPA: [4.0](#)

May 2025

Texas Woman's University, Denton, TX

B.S. in Computer Science, GPA: [4.0](#)

Dec 2021

[Summa Cum Laude](#) | [Outstanding CS Student Award](#) | [Dean's List](#)

Personal Projects

AI-Powered Exercise Form Visualizer (OpenCV, MediaPipe)

Developed a [real-time](#) computer vision tool using [MediaPipe](#) for [pose estimation](#) and [OpenCV](#) for webcam-based feedback. Computed joint angles to assess form versus biomechanical templates and provide instant corrective cues.

Review-Based Movie Recommender (Python, scikit-learn)

Built a semantic movie recommender using [TF-IDF](#) and [cosine similarity](#) to identify films matching user-perceived tone and thematic content.