solorzanoah@gmail.com

Skills

• Languages: Java | C++ | Python | Bash | SQL

• Tools: Docker | Podman | Kubernetes | Gradle | Linux | Spring Boot | Git | CI/CD | Jira Ansible | Helm | CMake | Vcpkg

Frameworks: Agile | Scrum | Kanban

• Networking: gRPC | Protobuf | UDP | CIGI | UCI | DIS

Work Experience

Software Engineer - Top Secret Clearance

Lockheed Martin – ADP April 2023 - Present

Core Development

- Develop and maintain a Modeling and Simulation software suite of 25+ Java and C++ microservices packaged as deployable Docker/Podman containers orchestrated with Kubernetes. Requires deep familiarity with Spring Boot, multi-threading, Vcpkg, CMake, GitLab CI/CD, and containerization.
- Create and maintain Bash and Python scripts for internal tooling and infrastructure support.
- Serve as cross-team data mediator: standardize communication protocols (UCI, DIS, gRPC, CIGI), align timing, and optimize data flow across teams' services.
- Support integration of simulation services with supplier-provided emulators, AFSIM, and the Joint Simulation Environment (JSE) in secure classified lab environments.

Developer Improvements

- Designed an internal automation tool for multi-service workflows: building, packaging, versioning, Git operations, and dynamic code replacement. Reduced suite update time by 2+ hours and minimized
- Improved developer productivity by enhancing the Lightweight Container Framework (LWCF), refactoring plugin utilities, and eliminating the need to rebuild services to switch debug modes—saving 10+ minutes per test cycle.

Mixed Reality Cockpit Simulation

• Lead an augmented reality-based cockpit simulation effort using a Varjo headset, integrating HUD/HMD and embedded graphics overlays with physical cockpit hardware and Integrated Graphics Aechelon for immersive flight training.

Scrum Master Responsibilities

- Act as Scrum Master: lead Agile ceremonies, facilitate Scrum-of-Scrums coordination, and resolve blockers to sustain team velocity.
- Manage Jira boards and roadmaps to support dynamic PI planning, backlog refinement, and delivery alignment.

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 webcambased visual feedback. Calculated joint angles from 33-point landmarks to assess form, compare against biomechanical templates, and deliver instant feedback for posture correction and injury prevention.

Q-Learning and Deep Q-Learning Agent (Python, OpenAI Gym)

Implemented both Q-Learning and Policy Iteration on the Frozen Lake environment. Tuned hyperparameters (alpha, gamma, epsilon) to analyze convergence and stability. Extended to a Deep Q-Learning agent using a neural network to approximate Q-values and trained it on an Atari environment using OpenAI Gym.

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

Built a semantic movie recommender that compares user review language using TF-IDF and cosine similarity to identify films with viewer-perceived tone and themes similar to a given target movie.

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