

# S. Rose Lindauer

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## Skills

**Software:** Python, TypeScript, JavaScript, Node, React, NextJS, Go, Podman, Docker, Helm, Kubernetes, SQL, VSCode, Make, CMake, Git, GitLab, GitHub, Ollama, Lakefs, Kubeflow

**Technical:** Full stack web app deployment, Frontend (UI/UX), Backend (API/DB), Cluster Management, CICD, Test Driven Development, Agile, SOLID principles, Open-Source principles

## Work Experience

**Senior A/AI Machine Learning Engineer:** Lockheed Martin AI Center Apr 2025 - Present

- Build/Ship LLM web apps to k8s clusters hosted in AWS/Azure environments
- Collaborate with research team to deploy autonomy models as microservices using gRPC
- Mentor ML research engineers on SW best practices and deployment processes
- Start/Own LLM App catalog web app with semantic search algorithms for discoverability
- Deliver on customer LLM feature requests in offline, low resource environments
- Apply Open-Source principles to LM software to boost adoption and growth

**A/AI Machine Learning Engineer:** Lockheed Martin AI Center Mar 2024 - Apr 2025

- Upgraded 100+ ML research repos to latest Python toolsets (uv, ruff, pytest, mypy, etc) in CICD
- Setup Ollama LLM hosting on airgapped network for offline chatbots/semantic search/RAG
- Build developer tools to automate various Agile/database/CICD routines

**A/AI Research Engineer Associate:** Lockheed Martin AI Center June 2022 - Mar 2024

- Developed data simulations to test visual navigation algorithms for LINUSS satellite
- Supported mission control for LINUSS satellite's CV team

**AI Research Intern:** ATC, Lockheed Martin Space May 2021 - May 2022

- Explored temporal graphical neural networks to advance machine reasoning
- Expanded a CV hazard detection algorithm for more precise moon landings

**Software Engineering Intern:** Skunkworks, Lockheed Martin Aero Sept 2020 - Dec 2020

- Trained semantic segmentation models for automated aircraft inspection technology
- Performed data cleaning and augmentation on a dataset of aircraft defect images
- Learned ML workflow in Domino Data Labs (training, evaluation, inference)

## Education

**Embry-Riddle Aeronautical University (ERAU) Daytona Beach, FL** GPA: 3.97

**Graduated: Spring 2022**

- Bachelors of Science in Aerospace Engineering (Astronautics focus)
- Minor in Computer Science (AIML focus)