

Joseph Spagnoli

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EDUCATION

University of Florida Gainesville Bachelor of Science in Computer Science, Minors: Statistics, Electrical Engineering Certificates in AI Fundamentals and Applications and Data Analytics	Aug. 2023 – May 2027 GPA: 4.0
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EXPERIENCE

Software Engineering Co-op GE Appliances Louisville, KY • Incoming co-op on the iOS Mobile Applications team, contributing to feature development in Swift using the VIPER architecture.	Jan. 2026 – Present
AI Scholars Researcher M.E. Rinker, Sr. School of Construction Management University of Florida • Researching an early-warning ML task to reduce occupational noise risk by predicting whether a construction worker will exceed NIOSH recommended daily noise exposure limits by shift's end, using only the first half of a worker's shift.	Aug. 2025 – Present
System Administrator Intern IFAS University of Florida • Managed technology needs for 25+ faculty , providing technical support and leading system maintenance, imaging, and deployment to ensure seamless technology integration and reliability.	May 2025 – Present
AI Engineer Intern Amentum NASA Johnson Space Center (JSC) • Reduced manual anomaly detection time by 12 hours by assisting in the development of an autoencoder using PyTorch to detect anomalies for ISS ARED machine sensor faults, processing over 11,000 data points per exercise set in large-scale time-series data .	Jun. 2025 – Aug. 2025
Undergraduate Research Assistant M.E. Rinker, Sr. School of Construction Management University of Florida • Developed a CTGAN synthesizer using SDV and Python to generate high-fidelity synthetic data, enabling initial neural network training in the absence of real-world data.	Oct. 2024 – May 2025

PROJECTS

ExperienceCurator AI Python, FastAPI, PostgreSQL, pgvector, LangChain, Docker, React/TypeScript	Dec. 2025 – Present
• Built a local-first “ career memory ” system to ingest docs + codebases , normalize content, generate embeddings , and serve evidence-grounded answers through a FastAPI REST API with pgvector retrieval .	
• Implemented an agent-orchestrated RAG workflow with evidence-backed resume tailor + interview question bank , cutting resume tailoring time 30% via more representative, citation-grounded bullet suggestions and generating concise, sourced answers to user-created interview questions.	
EvoChess Python, PyTorch, MLflow, Dagster, AWS S3, Docker, Google Cloud Run	Mar. 2025 – Apr. 2025
• Orchestrated an automated MLOps pipeline with Dagster to ETL chess game data from Lichess into an AWS S3 bucket for CNN model training with PyTorch , and deployed the final model as a containerized API using Docker and Google Cloud Run .	
• Trained a Convolutional Neural Network in PyTorch on a filtered dataset of over 9,000,000 2000+ elo rated games , engineering a data processing workflow to predict optimal move sequences from any given board state.	
Data-Driven Resource Optimization Python, Matplotlib, Scikit-learn	Jul. 2024 – Aug. 2024
• Developed a gradient descent algorithm to minimize the Mean Squared Error (MSE) for predicting event resource needs	
• Visualized cost function progression using Matplotlib and validated model performance, achieved a R² score of 0.958 with Scikit-learn , reduced costs by 20% and an 85% decrease in waste.	

SKILLS AND ACHIEVEMENTS

Languages: Python, C++, R, Java, SQL, JavaScript, TypeScript Databases: PostgreSQL (pgvector), MongoDB, InfluxDB, MySQL
Cloud & DevOps: AWS (S3), Google Cloud Platform (Cloud Run), Linux, Dagster, Docker, Grafana, CI/CD, Git
Libraries/Frameworks: Scikit-learn, PyTorch, Pandas, LangChain, SQLAlchemy, Alembic, SDV, React, Dash, Plotly
Awards: Amentum Intern Scholarship (2025), AI Scholar (2025), UF President's Honor Roll (2024–Present), Machen Florida Opportunity Scholar (2023)