ANA PERNALETE

Software Engineer

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WORK EXPERIENCE

Rapdev.io Boston, MA
Associate Software Engineer Feb 2022 – June 2023

- Deployed Datadog agents across 100+ environments, integrating with AWS, Azure, and GCP to enhance cloud observability.
- Supported data ingestion and root cause analysis for research in smart agriculture and retail systems.
- Automated monitor downtimes and AWS GovCloud onboarding via API, reducing manual work and improving scalability.
- Migrated 30+ apps from New Relic to Datadog, cutting monitoring costs by 80% for a major life sciences firm.
- Built 100+ dashboards and SNMP profiles, boosting reliability and expanding Datadog Marketplace support.

EDUCATION

University of Colorado Boulder - Boulder, CO
- *Master of Science (MS) in Computer Science* *Expected 2026*
- *Graduate Certificate in Data Science*

Per Scholas - *AWS ReStart Program Graduate* - Boston, MA *May 2021*
Yacambu University - *Bachelor of Science in Psychology* *July 2014*

TECHNICAL SKILLS

Languages/Frameworks: Python, SQL, Java, PySpark, Spark, Kafka, MATLAB, TensorFlow, Hugging Face, scikit-learn
Tools & Platforms: AWS (S3, Lambda, SageMaker), Docker, Git, GitLab CI/CD, Airflow, FastAPI, JupyterLab, VS Code
ML & Modeling: Supervised/Unsupervised Learning, Regression, Classification, Clustering, Feature Engineering, NLP
Deployment & Ops: REST APIs, CI/CD, ETL Pipelines, Monitoring (Datadog, Grafana, CloudWatch)
Core Foundations: Statistics, Probability, Algorithms & Data Structures, Linear Algebra, Calculus

CERTIFICATIONS

AWS Certified Machine Learning Specialty, *Amazon Web Services* December, 2024
Mathematics for Machine Learning and Data Science Specialization, *Deep Learning AI* February, 2025

PROJECTS

Artwork Classifier
PyTorch, scikit-learn, Hugging Face, Pandas, Matplotlib, WikiArt Dataset

- Trained a deep learning model to classify artworks by artist and style using a curated version of the WikiArt dataset.
- Conducted extensive EDA and preprocessing of 50,000+ labeled images to build a multi-class classification pipeline.
- Built a CNN-based classifier and evaluated using precision/recall metrics; experimented with transfer learning from ResNet architectures.
- Planning integration with a web interface to allow users to upload artwork and receive predicted style and artist attribution.

E-Commerce Analytics API
FastAPI, PostgreSQL, SQLAlchemy, Streamlit, Docker, scikit-learn, Pandas, Matplotlib

- Developed a full-stack API to serve e-commerce analytics and customer segmentation insights using FastAPI and PostgreSQL.
- Built RFM-based customer segmentation with KMeans clustering to identify behavioral segments.
- Designed and deployed interactive dashboards using Streamlit to visualize sales trends, top-performing products, and customer segments.
- Enabled dynamic SQL querying and visual reporting with secure endpoints for business intelligence use.