

Alex Carter

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PROFESSIONAL SUMMARY

Entry-level Python/ML developer with strong foundations in machine learning workflows, data validation, and test automation. Hands-on experience building and testing ML pipelines using Python, scikit-learn, and PyTorch basics. Motivated to ensure quality, reliability, and reproducibility of ML systems in QA and junior ML engineering roles.

TECHNICAL SKILLS

Languages: Python (primary), SQL (basics)

ML & Data: NumPy, Pandas, scikit-learn, PyTorch (basics), Jupyter Notebook

Testing & QA: pytest, unittest, mocking, basic test automation concepts

Tools & Platforms: Git, GitHub, Docker (basics), CI/CD awareness (GitHub Actions/Jenkins)

Cloud: AWS (basic familiarity)

PROFESSIONAL EXPERIENCE

ML QA Intern — NovaSense Analytics (Remote) | Jun 2024 – Dec 2024

- Developed Python scripts to validate datasets used in model training; automated checks reduced manual QA effort by 30%.
- Wrote 50+ unit and integration tests using pytest for data preprocessing and feature engineering modules.
- Executed regression tests across 5+ datasets to verify model stability after pipeline changes.
- Collaborated with data scientists to log and reproduce model errors using structured test cases.

Python Test Automation Intern — CloudRiver Labs | Jan 2024 – May 2024

- Built REST-facing Python utilities to test input validation and data contracts for ML services.
- Implemented automated smoke tests for training pipelines, catching 12+ data schema issues pre-deployment.
- Containerized test runners with Docker to standardize local testing environments.

PORTFOLIO PROJECTS

ML Classification Model with Test Suite — Built a logistic regression classifier with a full pytest suite for data preprocessing, training, and inference validation. *Tech:* Python, scikit-learn, pytest. GitHub: github.com/alexcarter-ml/ml-classifier-tests

Automated Data Quality Checker — Created a Python tool to profile datasets and flag missing values, outliers, and schema drift; integrated basic CI checks. *Tech:* Python, Pandas, GitHub Actions. GitHub: github.com/alexcarter-ml/data-quality-checker

ML Pipeline Regression Tests — Implemented regression tests for a simple training pipeline to compare metrics across runs and datasets. *Tech:* Python, NumPy, pytest. GitHub: github.com/alexcarter-ml/ml-pipeline-regression

EDUCATION

B.S. in Computer Science — Redwood Valley University, CA | 2021 – 2025 (Expected)

Coursework: Machine Learning, Data Structures, Software Testing