Harrison Lanier

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WORK EXPERIENCE

Clickvoyant (Techstars '22)
Director of Data Science — June 2023 – Present

- Enhanced performance of AWS EKS cluster, resulting in a 45% reduction in report generation time while supporting a 400% increase in data processing capacity.
- Orchestrated sprint planning sessions to align with the product roadmap, accurately estimated time and effort for sprint items and led a data science contractor to consistently meet timelines.

Data Engineer — February 2023 – June 2023

- Achieved a 49% reduction in cloud infrastructure costs by migrating the data application from KNIME to an AWS EKS cluster, using Airflow for job scheduling and PySpark for data processing.
- Engineered ETL modules to extract data from GA4 into AWS S3 buckets, conducted in-depth data analysis using statistical packages like scikit-learn, and crafted automated client reports including visualizations of the insights.

Parkster.ai (Techstars '22)
Co-Founder & Chief Technology Officer — August 2022 – February 2023

- Implemented a real-time parking availability detection model using TensorFlow, achieving 92% accuracy in predicting the status of over 200 parking spaces.
- Developed and deployed a GCP Cloud Run service that extracted real-time parking spot pricing data from over 2,000 garages, stored it in BigQuery, and served a customer-facing website.

Saint Louis University Computer Vision Lab
Research Assistant — June 2022 – August 2022

- Architected a PyTorch model to detect furniture in hotel room images for TraffickCam, a project employed by the FBI to combat human trafficking using computer vision.
- Designed a Flask application for annotating bounding boxes on images and stored changes in a SQL database.

Invesco
Performance Analyst Investment Intern — March 2021 – August 2021

- Automated a Power BI dashboard to summarize fund data for portfolio managers, saving 40 hours a month.
- Developed and executed SQL queries to analyze fund performance, providing crucial insights for the portfolio management team's decision-making process.

PROJECTS

TTP Appointment Scanner

- Deployed a GCP Cloud Run service that scrapes the Trusted Traveler Program website every 10 minutes, queries data stored in BigQuery to identify new appointments, and promptly notifies customers via SMS and/or email upon the opening of timeslots at selected locations.

EDUCATION

Saint Louis University

Bachelor of Science
Data Science — August 2018 – May 2022

- Major GPA: 3.7; Magna Cum Laude; Dean's List five semesters
- Relevant Coursework: Artificial Intelligence, Computer Vision, Machine Learning, Databases, Applied Regression

SKILLS

Highly Proficient: Python, Pandas, NumPy, Flask, R, SQL, BigQuery, Git, GitHub, Linux, Bash
Proficient: PySpark, PyTorch, TensorFlow, JavaScript, React, NodeJS, GCP, AWS, Kubernetes, Docker, Airflow, MongoDB