





JOSHUA LOPEZ

DATA SCIENCE MANAGER

CONTACT

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Philadelphia, PA 
[LinkedIn](#) 

EDUCATION

Bachelor of Science
Statistics and Data Science
Carnegie Mellon University
2013 - 2017
Pittsburgh, PA

SKILLS

Django
spaCy
Kubernetes
GitLab
Microsoft Azure
Spark
Seaborn
TensorFlow
dplyr
SQL

WORK EXPERIENCE

Data Science Manager

Cigna

2023 - current / Philadelphia, PA

- Supervised the migration of development pipelines to GitLab, reducing project delivery time by 3 weeks.
- Designed a predictive analytics framework that reduced fraudulent insurance claims by 36%, **saving the company \$2.4M+ annually.**
- Pioneered the use of containerization with Kubernetes for deploying machine learning models, achieving a 98.3% uptime for critical insurance plan systems.
- Spearheaded the adoption of data quality checks on Spark, reducing insurance policy-related data issues by 27% and ensuring the reliability of insights.

Market Research Analyst

Vanguard

2020 - 2023 / Malvern, PA

- Conducted comprehensive market analysis to monitor the latest financial trends, resulting in a 19% improvement in investment decision-making accuracy.
- Maintained a cloud-based analytics platform on Microsoft Azure, handling a scalable data processing system that saved the company \$5,350+ in research costs.
- Used Seaborn for visualizing monthly financial data of all clients, enhancing the presentation of market trends to stakeholders, and increasing their monthly feedback satisfaction rates by 11%.
- Employed dplyr for quick data manipulation in R, **speeding up report preparation times by 34 minutes** and enabling faster insights generation.

Junior Social Media Coordinator

Wawa Inc.

2017 - 2020 / Media, PA

- Developed Wawa's first social networking app using Django, increasing online engagement within the first quarter by 17%.
- Created a chatbot using TensorFlow for resolving customer queries/complaints on social media platforms, lowering response time by 2 hours.
- Leveraged SQL queries to extract insights from social media data, guiding the content team to personalize daily captions, leading to a **24% boost in post engagement.**
- Ideated a location-based marketing campaign using geographical customer data analysis, driving a 31% uplift in foot traffic to stores with high discounts.