

NENELSON BARKER

Senior Data Scientist

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SUMMARY

Senior Data Scientist with over 9 years of experience in the fields of e-commerce. My biggest achievement is a 50% increase in Walmart's domestic sales. After that I felt the need to contribute to a greater cause and joined CrashData with which I have been able to improve road safety by 75%.

EDUCATION

B.S. Data Science

Columbia University in the City of New York

2009 - 2013 New York City, NY

GPA
3.8 / 4.0

- Data Science Major in Foundational courses in Mathematics, Computing and Statistics
- Took additional courses in Big Data Ecosystems and Data Visualisation

EXPERIENCE

Senior Data Scientist

CrashData

2019 - Ongoing Gardena, CA

CrashData is the leading company that gathers data from a vehicle's sensors before, during and after a crash. The data is then used to improve road safety.

- Joined as employee #4 when CrashData was just starting operation
- Tutored algorithms and data structures to 5 junior data scientists
- Implemented automated data reduction and evaluation with Mapreduce and Hadoop to reduce the process from eight (8) weeks to eight (8) hours
- Created data visualisations using QlikView and presented it to technicians
- Our work has helped over 50 car manufacturers improve their safety systems, which led to a 75% decrease in fatal crashes in 2020

Data Scientist

Walmart

2014 - 2019 New York City, NY

Walmart is an American multinational retail corporation that operates a chain of supermarkets and grocery stores from the United States.

- Worked in a team of 20 data engineers and scientists
- Improved data quality & performance by 40% by analyzing, verifying and modifying SAS & Python scripts
- Gathered, organized & analyzed 2016, 2017, 2018 marketing data using Python, Hive, R, SAS ML algorithms, and Tableau
- Created and presented models for global sales revenue using the above mentioned, which resulted in a 50% increase in Walmart's domestic sales
- Was able to discover that on average people are 25% more likely to buy fish on rainy days
- The marketing team increased fish sales by 40% using this information

Entry-Level Data Scientist

JotForm

2012 - 2014 New York City, NY

JotForm is an independent research company that offers quantitative research solutions for businesses

- Started working full-time at JotForm during my third year at university
- Worked in a team of 5 data scientists
- Performed data entry and coding for 5 studies
- Collected field data from over 5000 volunteers
- Used Hadoop - Hive to fit the complete data and Hive queries to perform Data Munging
- Produced interactive data visualisations using Tableau

TECH SKILLS

Programming Skills

Python Java C GIT

Data Skills

Apache Hadoop Apache Mahout

Apache Spark MapReduce Hive

MangoDB NoSQL QlikView Tableau

Excel

Statistical Analysis Tools

SAS SPSS R

SOFT SKILLS

Inference

My most recent experience at CrashData has improved my ability to derive logical conclusions from previous events

Detail-oriented

The devil is in the details - I always pay extra attention to the tiny bits of data because they often can make the biggest difference

Communication

Able to boil down complex subjects to simple terms, as seen in my experience as a mentor to juniors and communication with other departments

MOST PROUD OF



Achieved a 50% increase in Walmart's domestic sales