# Jason Shiverick

## Lead Data Scientist and Data Engineer

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### Tech Stack

Spark, Python, Docker, Ansible, Git, SQL / NoSQL, Statistical Modeling, Machine Learning, AWS

### Experience

**Tesla** *Associate Manager, Data Science | Reliability* **2015 to Present**

* Developed Ansible/Docker deployment architecture for a Spark standalone cluster and python libraries for efficient manipulation and processing of log data.
* Established an analytics workflow leveraging git version control, with jira integrations. Designed the ETL workflow using spark, airflow, jupyter and superset.
* Provided direction on proactive maintenance campaign and prognostics algorithm development using machine learning techniques: *random forest, logistic regression, physics of failure.*

**Tesla** *Senior Data Scientist* **2014 to 2015**

* Established an extensive code base that provides tools to the organization for extracting, transforming, and analyzing field data at scale.
* Developed a modern approach to advanced warranty simulation in Python that can account for competing failure modes in a repairable system under varying use conditions.

**Tesla** *Reliabilty Data Scientist* **2013 to 2014**

* Developed statistical frame work for python: *Weibull analysis, Stress-Strength Convolution, Hypothesis testing, Best fit solver, generalized distribution framework, newton-raphson solver, ranking methods, mttf*

**Ingersoll Rand** *Reliability Engineer* **2011 to 2013**

**Medtronic INC.** *Product Performance Specialist* **2010 to 2011**

**Boeing Corporation** *Systems Engineer* **2008 to 2009**

### Education

**Graduate Course Work (Reliability Engineering)** **2012 to 2013** University of Maryland (online) College Park, Maryland *ENRE 602: Reliability Analysis* *ENRE 655: Advanced Methods in Reliability Modeling*

**Bachelors of Science in Aerospace Engineering** **2004 to 2008** Iowa State University Ames, Iowa

### Invited Talks

[**PHM Socioty**](https://www.phmsociety.org/) **2015** automotive panel discussion

[**ARS**](http://www.arsymposium.org/) **2014** Big Data in Reliability: 1st Place