

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

Waymo [Contract with Adecco] *Senior Data Scientist* March 2018 to June 2018

- Developed Markov chain Monte Carlo python code base for accurately forecasting field failures in complex systems.
- Developed Reliability analytics data pipeline and dashboards for report automation.

Mayfield Robotics [Contract] *Data Engineer, Consultant* March 2018 to June 2018

- Data Warehouse: Designed and implemented analytics data architecture using spark via AWS Glue to process robot logs and disparate data sources into AWS Athena optimized parquet files on S3.

Tesla *Associate Manager, Data Science / Reliability* 2015 to 2018

- 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 Reliability 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 Society 2015 automotive panel discussion

ARS 2014 Big Data in Reliability: 1st Place