

Jason Shiverick

Lead Data Scientist and Data Engineer

jason.shiverick@gmail.com
linkedin
415-849-5589

Tech Stack

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

Experience

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

- 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

