**Cody Bushnell – 2502 Rustic Trail Ln, Richmond, TX 77469 214-794-7277 - [Website](Website) - [LinkedIn](LinkedIn)**

**Summary**

Data Scientist/Engineer with an established background in deriving valuable and actionable insights from many types of data.

**Technical Expertise**

- Statistical Modeling and Machine Learning
- Data Wrangling and Munging
- Data Visualization
- Data Mining

**SKILLS AND CERTIFICATIONS**

Python, R, Scala, Spark, JavaScript, Java, MATLAB, SIMULINK, C#, NoSQL, SQL, Git, Microsoft Office, Linux, AWS, SMACK (spark, mesos, akka, Cassandra, kafka)

**PROFESSIONAL EXPERIENCE**

**2015-present Rolls-Royce Controls and Data Services – Houston, TX**
**Senior Data Scientist**

- In charge of delivering production quality analytics capable of solving various decision making processes across Rolls-Royce
- Developed an IoT platform for use across Rolls-Royce, enabling streaming and batch analytics on all Rolls-Royce machinery (jet engines, industrial gas turbines, diesel engines)
- Conduct FMECA workshops in order to define how machinery data can be leveraged to diagnose impending failures
- Mentor junior engineers in data analytics as well as rotating and reciprocating engine technology

**2013-2015 Rolls-Royce Controls and Data Services – Houston, TX**
**Technical Consultant**

- Developed a Predictive Equipment Health Management analytics solution to extend maintenance intervals by providing instantaneous turbo machinery equipment health assessments
- Customer facing engineer conducting requirements gathering, implementation, and technical sales
- Lead a team of data scientists to deliver a fully automated operational optimization solution to one of the world's largest oil and gas companies.
  - Proven to recover 5-7% of oil production being lost due to suboptimal operation

**2011-2013 Lockheed Martin Aeronautics – Joint Strike Fighter (JSF), Fort Worth, TX**
**Systems Engineer**

- Refactored proprietary performance model  to reduce simulation and turnaround time by 75%
- Led a project across the JSF program applying algorithmic approaches to financial estimates
- Developed a Simulink discrete event performance model utilizing Orthogonal Latin Hypercube Designs to map a response surface of sustainment operations
- Served as Technical Lead on a study to relate the cost of the aircraft fleet to fleet performance

**2010-2011 United States Bowling Congress, Arlington, TX**
**Research Engineer**

- Responsible for automation of testing equipment through the use of robotics and microelectronics
- Conducted a Design of Experiments to characterize the effects of physics based variables on the motion of a bowling ball on a lane
- Created an automated bowling machine equipped with machine vision scoring, network results database, and statistical analysis algorithms to measure results against an established standard

**EDUCATION**
STEPHEN F. AUSTIN STATE UNIVERSITY, NACOGDOCHES, TX
Bachelor of Science in Physics, Minor Mathematics and Engineering, Magna Cum Laude

SOUTHERN METHODIST UNIVERSITY, DALLAS, TX
Master of Science in Systems Engineering