Cody Bushnell – 2502 Rustic Trail Ln, Richmond, TX 77469 214-794-7277 - Website - LinkedIn

Summary

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

Technical Expertise

- Data Analytics and Machine Learning
- Monte Carlo Simulation
- Statistical Modeling and Analysis
- Operations Optimization

SKILLS AND CERTIFICATIONS

Python, R, Scala, Javascript, Scala, Spark, MATLAB, SIMULINK, C#, Java, NoSQL, SQL, Microsoft Office, VBA, 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