Jeff Lentz
Data Scientist

Powder Springs, GA - Email me on Indeed: indeed.com/r/Jeff-Lentz/c5ed90a5d82b0f10

Data Scientist with 11 years experience in machine learning, big data, and software development
Authorized to work in the US for any employer

WORK EXPERIENCE

Data Quality Engineer
GE Power - February 2016 to Present

Created analytics that are the basis of $1.9B in contractual service billing for gas turbines
• Created analytics to generate operational data reports published to an online approval tool where the data is reviewed and approved by 400 internal users.
• Automated a previously manual and error-prone calculation and reduced late invoicing
Monitor the collection of 20TB per annum of sensor data streaming from 1000+ power plants
• Created analytics in Python to calculate data collection statistics and detect anomalies on sensor and controller data in AWS S3, Cassandra, and Proficy Historian data stores
• Built collaborative-filtering recommender system which successfully found thousands of tag configuration problems without subject matter expertise

Senior Data Scientist
GE Power - May 2011 to February 2016

Created analytics to provide business intelligence, improve customer operations, and detect anomalous operating conditions on power generating equipment at power plants
• Created analytics to predict contractual services revenue, detect inefficient fuel use, impute missing data, optimize equipment replacement, and detect valve failures
• Created software testing tools, designed standard analytic I/O, created code libraries for signal processing and data cleaning, trained new developers and contractors which reduced code development cycle time
• Followed Agile design practices using Rally and Jira to track user stories.
• Administered SVN source control repository

Controls Engineer
Caterpillar - August 2006 to April 2011

Created embedded software for heavy earth-moving equipment
• Developed "Stable Blade" active blade-dampening system for bulldozers which greatly reduced operator skill level required
• Designed and performed verification and validation testing for embedded software

EDUCATION

MS in Mechanical Engineering
Missouri University of Science & Technology   -   Rolla, MO
August 2008

BS in Mechanical & Aerospace Engineering
University of Missouri-Columbia   -   Columbia, MO

December 2003

SKILLS

PYTHON (2 years), DATABASES (6 years), MACHINE LEARNING (10+ years), MATLAB (10+ years), MICROSOFT SQL SERVER (6 years)

LINKS

https://www.linkedin.com/in/jeff-lentz-5047b122/

ADDITIONAL INFORMATION

• Scripting Languages: Python (pandas, scikit-learn, pyodbc, psycopg2, numpy, geocoder, requests), MATLAB (m-scripting, Simulink, GUIDE)
• Relational Databases: Microsoft SQL Server, PostgreSQL, Greenplum
• Math: Machine Learning, Linear Algebra, Calculus