Bryan Callen

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DATA ANALYTICS

Performance Summary: Proactive, motivated, has proven track record in seeking out and acquiring new skills as the situation calls for. Especially adept at analysing data sets and coming up with alternate approaches for improved accuracy. Talented in devising automated processes by combining multiple coding strategies for improved performance.

SPECIAL ATTRIBUTES

• Worked on multiple predictive analytic projects, employing a variety of regression techniques
• As Integration Engineer performed various analyses at project and corporate levels.
• Strong foundation in HIPAA policies and healthcare data
• Extensive experience with various data processing platforms and languages including Oracle PL/SQL, SQL Serve T-SQL, MySQL, PostgreSQL
• MS with concentration in numerical analysis and optimization.
• Double undergraduate major in Math and Physics.

CORE PROFICIENCIES

• Data Interpretation	• Python ML Techniques	• Data Analysis Techniques
• Regression Techniques	• Advanced SQL	• Ad-hoc Reports Creation
• Nonlinear Optimization	• Epidemiological models	• Curve Fitting

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IT SKILLS

• Programming: Python, R, MATLAB, Maple, SAS, SQL (All variants), Shell and Batch scripting, JavaScript, VB
• Web App Development: Ruby on Rails, Flask, Django, Groovy on Grails
• Business Applications: MS Office, Tableau Desktop and Prep
• Data Packages: Apache Spark, NumPy, SciPy, pandas, matplotlib, scikit-learn
• Version Control: Vagrant, Git
• AWS: s3 with command line interface, Athena, EC2

PROFESSIONAL EXPERIENCE

TeschGlobal, Grafton WI| Aug. 2017 – June 2020
Solution Engineer
• Lead Ruby on Rails developer – Developed, monitored, and maintained RoR web app, overseeing a database migration which involved upgrading the version and using making use of the seed utility to convert image files to blobs
• Database analysis -responsible for the design and implementation of large-scale data integration
• Worked on multiple machine learning projects, with special emphasis on regression and classification techniques and cluster analysis
• Designed, implemented, and tested an MVP for a web app, to chart and forecast spread of covid, using modified SIR and SEIR models
• Performed various DBA functions, designed, implemented, and maintained advanced series of stored procedures and triggers in SQL Server and Postgres
• Monitored and maintained PHI, along with large scale database encryption, using Nifi and java
• Give training to the staff members on the new systems implemented
• Worked on multiple proof of concept projects cantered around creating and training chatbots, paying special attention to natural language processing and sentiment analysis

WageWorks, Mequon WI | June 2016 – July 2017
Data Integration Engineer
• Worked on a government contract to manage and maintain healthcare information.
• Oversaw the implementation of detailed mappings related to inbound and outbound file feeds.
• Worked with third party vendors to provide addition functionality.
• Responsible for regularly writing complex SQL queries and programs.
• Worked with VBA to provide in depth financial analysis.

Southern Illinois University, Carbondale IL | Aug. 2012 – Aug. 2014
Teaching Assistant
• Laboratory Instructor for various undergraduate mathematics classes - design and presented lectures and tests, assist students with exercises and questions, assist professors with classroom curriculum and programs, grade student work and tests.
• Math Computer Room Manager - assist students with mathematical and other computer applications, and tutor undergraduate math students.
• Mathematics tutor in formal session, and open office hours.

Dakota Intertek Corp., New Berlin WI | May 2012 – Aug. 2012
Intern
• Statistical analysis of Profit/Loss for projects meeting certain criteria.
• Bid risk analysis - evaluate probability of task/bid success based on historic performance and win data.
• Corporate profit/loss analysis.
• Assemble data, populate Excel spreadsheets and Access databases, prepare PowerPoint and Publisher presentations, scheduling and management using Microsoft Project.
• Any various construction, technician, and marketing tasks asked of me.

Dakota Intertek Corp., New Berlin WI | May 2003 – Aug. 2012
Inspector
• Physically inspect single and double family repossessed dwellings under United States Department of Housing and Urban Development (HUD)
• Evaluate hazard potential and general condition from a regimen of more than 100 factors.
• Document and photo-document hazards and conditions, and report online within 24 hours.
• Submitted reports were within deadline, with greater than 95% accuracy, without exception.

EDUCATION
MS in Applied Mathematics | Southern Illinois University, Carbondale, WI – 2014