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| Professional Summary | Results-oriented Data Analyst with a strong background in database design, process improvement, and automation. Experienced in leveraging data analytics and predictive modeling to drive operational efficiency and optimize business performance. Proven track record in managing complex projects and collaborating with cross-functional teams. Master's degree in Applied Data Science. |
| Experience | **Data Analyst Staff**, Nov 2021 – Present  **Lockheed Martin Aero**   * Designed and created a database to maintain team data from multiple tools and processes. * Refactored process data and created automation tools for process improvement. * Performed in-depth analysis on Supplier Performance data for executive reporting. * Created predictive models for supplier responsible disruptions to production. * Created and maintained server architecture to support team tools.   **Data Analyst Sr**, Mar 2019 – Nov 2021  **Lockheed Martin Aero**   * Designed and implemented a comprehensive database to consolidate data from various enterprise tools for analysis. * Developed key Tableau reports that streamlined department job duties and improved decision-making. * Leveraged Natural Language analytics to identify repetitive defects and implement preventive measures. * Conducted predictive analysis and operationalized models for improved efficiency.   **Systems Engineer**, Feb 2017 – Mar 2019  **Lockheed Martin Aero**   * Manage engineering design changes through the change request process for both production and retrofit. * Coordinate with multiple engineering groups and downstream groups to capture all impacts for design changes.   **Mechanical Engineer II**, Dec 2011 – Mar 2016  **Nuclear Logistics Inc.**   * Select parts and design assemblies to meet client design requirements. * Write specifications and test plans to verify that components meet client requirements. * Design and manage test setups for a wide variety of electrical and mechanical components. |
| Projects and Accomplishments | * Converted the Supplier Remedy process from text-based manual administration to full database integration and automation. * Using statistics, created a ranking system to escalate poor performing suppliers for executive engagement. * Refactored legacy Django website into ASP.NET to meet security requirements. * Created a graph database of subtiers in the Supply Chain, and created a graphical exploration tool to find common subtiers. * Created an investigation tool which linked data from multiple sources, based on part number, supplier, quality, and engineering data. * Created a Tableau map of supplier and support personnel locations to assist management in relocation decisions. * Created a metric to track Engineering Change Proposals that drive potential aircraft groundings. * Automated data collection to manage and improve the Engineering Change Proposal backlog. * Initiated a process improvement for Off-board changes to improve affordability and reduce span times. * Created an automated tool that can track late Tech Docs for the proposal process. * Created a tool that tracks aircraft that were missed between production and retrofit changes. * Created a tool that can automatically generate exception reports to track Change Requests that have been delayed in the Change Process. * Trained multiple new engineers on the commercial grade dedication process. * Sourced, tested, documented, and shipped over 100 parts for a single project totaling over $300,000. * Managed a project with over 1,500 parts, tracking within the facility and the documentation process. * Presented multi-day training to clients on engineering processes. * Wrote several guide documents for the engineering department to increase document quality and efficiency. * Wrote several test and report templates for new engineers. |
| Education | **Masters in Applied Data Science, 2023**  Syracuse University  Courses: Text Mining, Natural Language Processing, Database Design, Scripting, Statistics, Predictive Modeling, Big Data Analytics  **Bachelor of Science in Mechanical Engineering, 2014**  The University of Texas at Arlington  Courses: Thermodynamics, Heat Transfer, Fluids, Mechanics of Materials, Manufacturing, Machine Design, Control systems, Statics, Dynamics, Pro-E Solid Modeling, Circuits, Ansys finite element analysis |
| Technical Skills | * Sequel Server Management Studio: SQL Server Agent, Common Table Expressions, Linked Servers, Database Design, CRUD operations, SSRS * SAP and HANA Studio: ETL pipelines * Descriptive Statistics: Hypothesis testing, Histograms, Anomaly detection, Aggregation and visualizing * Python: NLTK, Scipy, Numpy, Pandas, Openai, Matplotlib, Scikit-learn, Gensim, Seaborn, Pyodbc * Predictive Modeling: Linear regression, Machine Learning, Neural Networks, Forecasting, Classification, Clustering, Decision Trees, Time Series Analysis * Natural Language Processing: Text Mining, Text summarization, Vectorization, Entity recognition, Large Language Models, Sentiment Analysis, Author attribution * Server administration: Remote connection, IIS, Credential management, Scripting, Task Scheduling * Tableau: Geographical visualization, Joining tables, Pivoting, Interactive Dashboards * Microsoft Office Suite: Excel, Powerquery, Visual Basic for Applications, Resource Accounts, Pivot Tables |
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