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Current Location:

Greater New York City Area

OBJECTIVE	To start a career in the field of data engineering and visualization. Specifically interested in performing analysis and creating informative visualizations for business intelligence or journalistic applications.			
DATA EXPERIENCE	<p>Tableau – Able to create high quality, informative data visualizations and dashboards with Tableau.</p> <ul style="list-style-type: none">• Data: CSV, Excel, Join Theory, Blending Data, Cleaning and Editing, Groups, Sets• Conceptual: Aggregation, Granularity, Filters, Hierarchies, Calculated Fields, Parameters• Visualization: Bar Charts, Line Charts, Area Charts, Maps, Scatter Plots, Dual Axis, Distributions• Storylines for showing data insights in a presentation format• Advanced Analytics: Trend lines, forecasting, Level of Detail calculations <p>Python – Experience cleaning and manipulating data sets to prepare for analysis.</p> <ul style="list-style-type: none">• Numpy – create, process, and perform functions on numpy arrays.• Pandas – Series, DataFrames, to/from csv, GroupBy, Data set merging and joining• Seaborn, Bokeh, Matplotlib, Bandicoot – Plots and data visualizations			
INDUSTRIAL EXPERIENCE	<p>Composite Manufacturing Specialist, GE Aviation Belleville, MI – March 2015-July 2016</p> <p>Develop and assist in the manufacturing process of a composite jet engine structural part.</p> <ul style="list-style-type: none">• Contribute ideas to develop and improve documented manufacturing process.• Operate and maintain automated fiber placement machine, autoclave, and cutting machine.• Hand layup and vacuum bagging of pre-preg carbon fiber and fiberglass in a clean room.• Collect and record dimensional data to ensure a high quality product.• Work and communicate closely with design and quality engineers. <p>Production Worker, Vestas Blades America, Inc. Brighton, CO – November 2014-February 2015</p> <ul style="list-style-type: none">• Experience in a composite wind turbine blade manufacturing environment. <p>Engineer and Machinist, MP Aero, LLC. Van Nuys, CA – October 2012-November 2013</p> <ul style="list-style-type: none">• Gained aerospace manufacturing experience at an FAA approved repair station			
EDUCATION	<p>Bachelor of Science, Aerospace Engineering – University of Colorado at Boulder Graduated May 2012</p> <ul style="list-style-type: none">• Gained experience in writing requirements, design, fabrication, and testing of a complete system.• Introduced to Matlab and Excel VBA for engineering simulation and analysis.• Modeled the motion of a rocket from a set of ordinary differential equations in Matlab.• Developed Matlab program to optimize the performance of a conceptual supersonic jet. <p>Big Data and Social Analytics Certificate – Massachusetts Institute of Technology Online Completed November 2016</p> <ul style="list-style-type: none">• Explored various sources of data that can be collected through personal sensors, and how this data can be processed to understand features of human behavior.• Learned about concepts related to big data and social physics.• Used basic statistical and visual data interrogation methods to analyze a data set.• Concepts of peer networks, network theory, the structure of networks, and graph clustering.• Deduced insights gained from analysis and proposed concepts of social influence and social incentives, and their impact on behavior change.			
TECHNICAL SKILLS	Python Java	Tableau Solidworks	MATLAB Mathematica	Excel Microsoft Office