

Joshua Jacob Baker

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WORK EXPERIENCE

Data Scientist & Consultant

TransOcean, Inc.

2018

Bellingham, WA

- **Forecasted & monetized** the US surimi market via time series import & domestic supply data regionally by POE

Data Scientist & Industrial Engineer

Nylatech Inc. & The Redco Group

2016 - 2017

Bellingham, WA

Created Kanban Inventory Pull system for 33 globally sourced SKUs to decrease C2C and accelerate material flow

- Built forecast-driven Kanban board for 33 SKUs with varying EOQs, preventing stockouts and optimizing C2C
- Designed QR ready Kanban cards for 33 SKUs, itemizing 1,000+ units, improving material visibility
- Developed sales, purchasing, and manufacturing dashboards, automating daily calculations and queries
- Redesigned 20,000^{sf} casting plant, measuring all features by tape, digitalizing drafts, and iterating over layouts
- Modeled root cause of below grade material per QA, by analyzing features like heat, duration, tools, caster, ingredients

Data Scientist & Project Manager

The Boeing Company – Site Services

2015

Seattle, WA

Led Boeing Trade Teams in 21 consecutive successful projects while successfully pitching to Boeing Executives

- Presented occupancy-variance classification data to Boeing Executives whom approved my proposed strategy
- Visualized classification data on floor plans, revealing \$15m/yr. cost-savings, and new modeling methodology
- Delivered 3-shift BBQ for 12,000 employees, feeding 4,000/hr., by networking with 8 primary stakeholders
- PM'd 21, site-to-site, Boeing relocations, by drafting SOW for trade teams, and coaching to completion

Data Scientist & Industrial Engineer

Nylatech Inc. & The Redco Group

2014-2015

Bellingham, WA

Redesigned and renovated 10,000 sq. Ft. plastic fabrication plant without stopping production for less than \$10,000

- Championed project, overcame resistance, received buy-in, approved by execs & techs, pm'd contractors
- Measured entire plant with tape measurer, modeled current-future state layouts digitally, via numerous iterations
- Cut TPCT by 90%, by rerouting and increasing velocity of material flow for 12 mills, decreasing C2C cycle
- \$3m of revenue per year, increased by 900% capacity, grows to \$27m per year, with robust market demand
- Scheduled & distributed ~30 custom orders/day for casting & fabrication plants, 11 cells, while updating sales team

TECHNICAL SKILLS

Computer & Data Science:

- **Machine Learning in R/R** Markdown Pipelines/SQL Query Tuning in SSMS /Tidyverse /ggplot2 /purrr/ caret/ Zoo/ Lubridate/ Poisson/Gaussian/**Constraint Optimization**/Derivatives/Distributions & Density Statistics/AB Hypothesis Testing: F & T Stat/Creative Feature Engineering/Boost/Bag/Stack/Ensemble/Regression & Classification/Text Analysis/ Time Series Analysis in R/Tableau/Excel/Javascript/HTML5/Internet & Networks/H2o/Logistic Regression/Random Forest/ Kmeans/KNN/Generalized Linear Models/Bayes Theorem/Experiment Design/Cross-Validation/Hyperparameter Tuning/ **Statistical Modeling**/ Applied Statistics/ARIMA Time Series Forecasting

Supply Chain Management:

- **Value Stream Mapping**/Cash-to-cash cycle/**Sales and Operations Planning**/Material Resource Planning/Master Production Schedule/Rough Cut Capacity Planning/Kaizen/JIT/Jidoka/Lean Manufacturing/Theory of Constraints/ Kanban/ Queue/ Logistics/Distribution Center/Purchasing/Operations Management/Industrial Engineering/ CATIA/ Autocad/ Activity Based Cost Accounting/Balance Sheet/Statement of Cash Flows/Income Statement/ Quality/6 Sigma/ Control Levels/ **Forecasting Seasonality Trend Cyclicity**/TPCT/Takt Time/Cycle Time/Freight Logistics

EDUCATION

Data Camp

- Data Science in R Certification
- Quantitative Analyst in R Certification
- Programmer in R Certification
- Data Analyst in R Certification
- Machine Learning in R Certification
- SQL Certification

Western Washington University

- Bachelor of Science in Manufacturing & Supply Chain Management (APICS Student of the Year)
- Bachelor of Art in International Business (French Study Abroad at KEDGE Grand Ecole)
- Business Analytics Minor (R, SQL, Tableau, Bayesian & Applied Statistics)