Phone: 360-540-4439 -- Email: [josh.jacob.baker@gmail.com](mailto:josh.jacob.baker@gmail.com) – LinkedIn: <https://www.linkedin.com/in/joshjacobbaker/>

**WORK EXPERIENCE**

**Data Scientist & Consultant 2018**

*TransOcean, Inc.* *Bellingham, WA*

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

**Data Scientist & Industrial Engineer 2016 - 2017**

*Nylatech Inc. & The Redco Group**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 20,000sf 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 2015** *The Boeing Company – Site Services**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 2014-2015** *Nylatech Inc. & The Redco Group**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 Cyclicality/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)