Professional EXPERIENCE

**PROCTER & GAMBLE |*Lead Data Science Engineer*| Greensboro, NC APR. 2021 – PRESENT**

* Lead data science engineer in developing ETL’s, EDA’s, SQL, Visuals, etc. to be implemented for operational and business integration.
* Utilized Python to implement unsupervised ML to detect inventory usage anomalies on 3TB of unstructured data to save $250M.
* Designed a model via VBA/Tableau to automate data entry to boost accuracy to 99.9% and save over 6000 hours.
* Developed a tool to filter multiple KPI’s via Python and Power BI. Tool is now globally used by over 70 manufacturing plants.
* Revamped Oral Care manufacturing MS SQL servers for over 100 tables to reduce query times by 80%.
* Consolidated receiving warehouse’s financial records via Python and Power BI to discover cost saving opportunities of $50K.
* Ensure relevant data is available to meet initiatives and technical readiness needs by continuously designing data models.

**GENERAL MILLS |*Yoplait Department Manager*| Murfreesboro, TN**  **JUL. 2020 – MAR. 2021**

* Spearheaded all logistics handling, start to finish, of all Yoplait products across 15 production lines, 3 warehouses, receiving, and shipping.
* Managed a team of 50+ operators (timesheets, correction action, etc.) and mediated conflicts create a productive environment.
* Executed multiple capital projects (integration to construction) to enhance site performance for a successful ROI of $1.5 million/year.
* Developed a KPI dashboard via Tableau/Python (API calls) to automate the retrieval of data on the performance of lines.
* Amplified operator safety by 11% through developing new safety standard techniques for forklift mobility.
* Optimized warehouse inventory for over 200+ SKU’s via SAP, Python, and Red Prairie.
* Directed communications amongst stakeholders, QAQC, schedulers, and engineers to strategize efficient product delivery.

**PEPSICO/FRITO-LAY | *Project-Process Engineering Intern* | Pulaski, TN MAY. 2019 – AUG. 2019**

* Procured and redesigned multiple process lines via AutoCAD for a successful ROI of $2.3 million dollars per year.
* Automated the consolidation of incoming ingredients via VBA and Tableau to save 3000-man hours per year.
* Analyzed 850 GB of equipment FMEA data via Python to forecast for root cause failures to create maintenance workflows. R^2 = 0.86
* Developed Tableau and Power BI data visualization tools for multiple manufacturing lines with KPI’s.
* Negotiated with vendors on supply plan budget based on operational needs for the plant.

**CIVIL SITE DESIGN GROUP| *Engineering Manager Intern* | Nashville, TN MAY. 2018 – AUG. 2018**

* Supervised capital projects that equipped municipality with sewer and storm-water retention solutions.
* Procured cost effective and environmentally sensitive design solutions to be presented to stakeholders via Tableau
* Drafted grant proposals and policy memos for ensured equitable and comprehensive growth on project developments.

Projects & Leadership

**ROUNDABOUT DEVELOPMENT| *Project Engineer Co-Op*| Knoxville, TN AUG. 2019 – MAY. 2020**

* Managed the development -start to finish- of a roundabout to improve vehicular movement by 30 % and safety by 60%
* Integrated GIS/Synchro/Tableau and AutoCAD 3D to empirically measure resilience of the system to unexpected failures.
* Applied K means cluster analysis to classify multimodal transportation use within a Knoxville intersection.
* Designed statistical regression models via R to predict vehicle crash rate to set groundwork for the intersection designs.

**TRANSPORTATION USAGE PREDICTION | *Lead Undergraduate Researcher*| Chattanooga, TN JAN. 2020 – MAY. 2020**

* Automated ETL pipelines via Python to develop customizable analytical reports to save 10+ man-hours/week on set parameters.
* Integrated Python (numpy, pandas, tensorflow, beautifulsoup, etc.) to develop regression models to find efficient transportation designs.
* Assessed bus preferential designs via application of k-means clustering, providing Chattanooga with more efficient bus solutions.

SKIlls

Google Analytics, HTML, C++, CSS

Python/R/SQL

VBA/SPSS

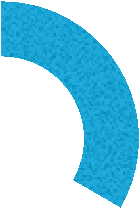
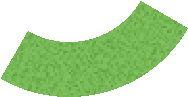
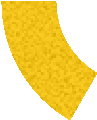
Tableau/Power BI

AutoCAD/SAP/ Red Prairie

100%

Mountain

Dew



Self-Starter



Statistics



Ownership



A/B Testing



EDA/ETL



Manufacturing Analytics

Beginner | Intermediate | Advanced

Education

**UNIVERSITY OF TENNESSEE | *B.S. Transportation Engineering* | Knoxville, TN**  **GRADUATED**