Blake Shurtz

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PROFESSIONAL SUMMARY

- *Previously managed innovative department in established firm emphasizing measured performance*
- *Looking to leverage data and statistical models to help solve important problems in business and society*

AREAS OF EXPERTISE

- Data Analysis
- Data Visualization
- Statistical Modeling
- Database Queries
- Streamlined Reporting
- Web Dashboards
- Technical Writing
- Customer Communication
- Business Development

PRESENT EXPERIENCE

Greiner Heating & Air   June 2015 – March 2020

Established mechanical contractor looking to develop and grow in energy-efficiency and renewable products

Home Performance Manager

Founded new department using data and incentive-based management paradigms; improved system efficiencies by 40%-300% through engineering design and equipment selection; drove year-to-year growth in company revenue by integrating complementary, performance-based products into existing sales product pipeline

- Administered company SQL database on AWS and streamlined report creation across departments
- Built and maintained interactive department dashboards and led decision-critical meetings
- Developed statistical models to measure value-added effects for multiple sales and marketing campaigns
- Fitted natural language processing (NLP) machine learning models to internal administrative data in order to measure customer sentiment and perform root cause analysis and recommend "best practice" improvements
- Formulated hypothesis tests for equipment performance to validate engineering models
- Surveyed market actors in order to gather expert opinion on uncertain regulatory environment and constructed Bayesian model to estimate effects of policy changes on business operations

MS, Statistics CSU East Bay   September 2017- May 2019

- Awarded Statistics and Biostatistics Department Scholarship, Spring 2019
- Option in data science, with training in R Studio's tidyverse, D3, Tableau, Power BI, and Tensorflow
- Presented master's thesis at American Statistical Association Joint Statistical Meetings (JSM)

PRIOR EXPERIENCE

Advanced Home Energy   June 2011 – June 2015

Contractor specializing in de-carbonization of housing stock through whole-building green retrofits

Data Analyst, VBA Developer

Worked in sales and analyst positions; daily tasks included assisting with technical sales and software development.

- Developed Excel application for construction project cost estimation and contract creation
- Built and maintained statistical models for production cost estimates and actual labor/capital cost data

BA, Environmental Economics UC Berkeley   September 2005 – June 2009