

# Data Analysis and Computer Science Skills

*Zach Fleeman*

## Work

- PeopleSoft Query power user and instructor for new hires.
- Tableau visualization usage for custom mapping of activities on a shop floor.
- Cluster analysis in R of our employees. Used to answer the question, “Who commonly works on product line X?”
- Excel for data manipulation and munging.
- MicroStrategy BI tool expert.
- Adhoc report generation for manufacturing leads.
- Projected and forecasted workload profiles using information from our data warehouse.
- Generated a web page monitoring my department’s output using a suite of R Markdown reports that were collected in an R Markdown Website.

## School

- 8 week course on Tableau and data visualization techniques in ggplot2.
- CRISP-DM education.
- Linear and logistic regression on large datasets in R.
- Model validation and improvement using statistical measures. Lift, confusion matrices, etc. . .
- Cluster analysis in R.
- Decision trees in R.
- Random Forest in R.
- Text mining in Python.
- Sentiment analysis on Tweets with Emoji inclusion.
- NLTK (Natural Language Toolkit) usage in Python.
- Web-scraping experience with Python.
- Created several Shiny web applications for data analysis and for fun.
- Entire course dedicated to forecasting in R with the FPP package.
- Big Data class focused on Google Big Query, Databricks, Hadoop, AWS (with EMR usage), Apache Spark, and Scala.
- Google Analytics and social media analytics class.
- Enrolled in more predictive modeling and GIS courses.
- iPhone development course in 2009.
- Used LaTeX to typeset reports for my graduate program.
- PHP MySQL querying experience.

## Personal

- Maintains a Digital Ocean Ubuntu Server droplet to host personal projects.
- Hobbyist Linux user. macOS user. Custom Windows PC builder.
- Data-fied and visualized the image outputs from my security camera.
- Created a Shiny app to analyze the sentiment of any Twitter account.
- Created and deployed several websites using knowledge of HTML, CSS, JavaScript and Bootstrap.
- Involved in KC Open Data website redesign.
- Strong knowledge of Audio/Video production and editing software.