

# MICHAEL DEBAKER

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<https://github.com/mldebaker>

## Skills

### Data Wrangling

- Build VBA scripts in Excel to automate tedious manual processes.
- Create Python-based scripts to automate the cleanup, re-structuring, and rendering of large, heterogeneous datasets.
- Interact with RESTful APIs using Python Requests and JSON parsing techniques.
- Utilize ETL process (Extract, Transform, Load) to transform and consolidate data from multiple sources.
- Write SQL commands to perform Create, Read, Update, and Delete commands.
- Utilize advanced SQL and Mongo techniques to combine multiple datasets into one so as to create even more impressive and comprehensive databases.
- Scrape information from web pages in order to collect data from a wide variety of online sources.

### Data Analytics

- Employ statistical analysis to model, predict, and forecast trends.
- Communicate and analyze new business insights using enterprise-grade tools like Tableau.
- Analyze social media trends using automated programs.

### Data Visualization

- Utilize real-world data sources to showcase social, financial, and political phenomena.
- Create in-depth graphs, charts, and tables utilizing a wide-variety of data-driven programming languages and libraries.
- Utilize geographic data to create geospatially (GIS) enabled maps.
- Build custom interactive data visualizations using D3.js and other JavaScript libraries.
- Create basic interactive websites and applications to show your work to the entire world.

### Enterprise Coding

- Ability to work with small-scale teams in order to create applications and visual datasets.
- Ability to work independently or in a group on complex data-mining projects
- Understand the basics of troubleshooting and enhancing legacy code.

### Computer Aided Drafting

- Experienced in using SolidWorks, Photoshop, ArchiCAD, AutoCAD, AutoCAD3D, Revit

### Engineering/Project/Management Skills

- Participated, coordinated and managed teams of laborers doing the following tasks: Fire Mitigation Inspection, ASTM Water Codes, Steam Shower Installation, Tile Installation, Demolition/ Deconstruction, Framing, Electrical trim, Basic Plumbing, Dirt and Erosion Control, HVAC Repair/maintenance, Floor Plans, Bobcat, Draft Stop, ext.

## Abilities

- Research and document program data quality issues.
- Make recommendations for best practices in data quality.
- Assist with data migration.
- Assist in the generation of geospatial datasets.
- Develop data quality standards.
- Assist with data entry/editing of legacy solutions to meet minimal data quality standards.
- Develop conceptual/logical data models to help define business requirements.
- Assist with the documentation, analysis, and quality baselines for application and program data software systems.
- Ability to work with both technical and non-technical audiences.
- Understands the software development process.
- Proficient in using Microsoft Office Suite, Share Point, & Global Shop Solutions.

## Education

Denver University (*Currently Enrolled*)

### **Data Analytics Boot Camp**

- |                                                                                                  |                                                                                                                             |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ❖ Programming in Excel (Pivot Tables, VBA Scripting)                                             | ❖ Front End Web Visualization (HTML, CSS, Bootstrap, Dashboarding, Java Script Charting, D3.js, Geomapping with leaflet.js) |
| ❖ Fundamental Statistics (Introduction to modeling, Forecasting)                                 | ❖ Business Intelligence Software (Tableau), Big Data Analytics with Hadoop - Machine Learning                               |
| ❖ Python3 Programming (Python, NumPy, Pandas, Matplotlib, API Interactions, Social Media Mining) | ❖ Databases (MySQL, MongoDB, ETL)                                                                                           |

Red Rocks Community College

### **Quality Control - Level 1 Certification**

*Drafting, Manufacturing*

*CMM Manager, PC Dimis, SolidWorks, Height Gauge*

## Experience

### **Catalyst Analysis**

(March 2019 - Current) Business Analyst

### **Ethos Distributed Solutions**

(April 2019 - July 2019) Tower Technician 1

### **Primus Aerospace**

(March 2018 - March 2019) Quality Inspector

### **Sterling Custom Homes**

(March 2016 - March 2018) - Superintendent Assistant