

# Max Caudle

## Data Scientist

### Personal Info

#### Address

4490 Driftwood Pl. Boulder, CO  
80301

#### Phone

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#### E-mail

maxwell.caudle@gmail.com

#### Personal Website

<http://www.maxcaudle.com>

#### GitHub

<https://github.com/MasonCaiby>

#### LinkedIn

<www.linkedin.com/in/maxcaudle>

### Technical Skills

Excel and VBA



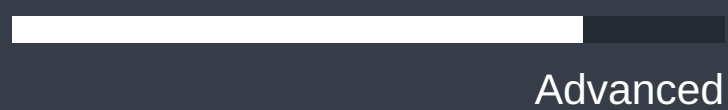
Python



SQL



Machine Learning



Statistics



Javascript | HTML | CSS



### Soft Skills

Problem Solving



Critical Thinking



Communication



Data Scientist with 7 years experience analyzing data, managing projects, implementing improved processes, designing and developing automation tools. Experienced in computer vision, natural language processing, and algorithm development. Achievements include reducing reporting time from 3 weeks to 4 days, improving report accuracy from 50% to 95%, and continual recognition as one of the most efficient workers at and well beyond job description.

- Took initiative and worked independently to create a report validation, submittal, and communication tool that stopped threatened lawsuits, increased report accuracy, and dropped reporting time and technical knowledge requirements
- Created multiple models and tools, focused on business growth and improvement
- Highest number of closed cases, company wide, over a rolling year, in 9 months
- Lead multiple quantitative analyses project groups, wrote and presented reports on our findings
- Managed academic and solar installation teams and projects

### Experience

2018-02 -  
present

#### Data Science Projects

- Radar Data (Boulder AI) - contracted to improve code, model, and convert Keras code to an old version of Tensorflow improved accuracy from 86% to over 90%
- IR data (Boulder AI) - Built a model to find "red zones" using IR and Depth Data
- Wildlife Detection (Boulder AI) - on a Colorado Parks & Wildlife study of wilderness restoration's effectiveness. Built a wildlife detection model with TensorFlow that obtained a precision of 83%. Included a robust pipeline to allow future training of the model for classification.
- SO Handler- Keras Recurrent Neural Net that produces Terry Pratchett text. Pulls unique images from Flickr every day and combines them with some generated Pratchett text in a daily email.
- Picnic Table- A hand made picnic table with a Raspberry Pi running 2 LED strips controllable from a website.
- Auto\_App- A bot that applies to jobs on AngelList with customized cover letters

2017-03 -  
present

#### Agency Reporting Associate

*AlsoEnergy*

- Analyzed and reported energy data to 13 nationwide incentive agencies
- Used Excel and VBA to create tools that ensure data integrity, automate tasks, and streamline processes- decreasing the time to file reports by over 50%
- Reduced average response time from 1 week to 1 day, caseload from 70 to 30
- Discovered and helped resolve multiple issues in our reporting software
- Became the companies saving grace for many customers, through excellent response time and service

2016-02 -  
2017-03

#### Co-Founder

*Endless Electricity*

- Co-founded and managed a solar subcontracting company; managed projects, finances, and installs
- Created a model that predicted solar cost, payback time, savings, and economic impact
- Project managed large residential installation (~50kW), with tight time constraints

### Education

2018 -  
2018

#### Galvanize - Data Science

Data Science Immersive that focuses on machine learning, automation, analysis, modeling, visualization, and data based decision making.

2011 -  
2015

#### B.A. Economics University of Colorado at Boulder

Focused on, and excelled at quantitative analysis and actionable decisions, using R and Mathematica.

Led group projects in advanced calculus, statistics, and economics courses.