

Matthew Theisen

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OBJECTIVE: Seeking position in data science, analytics, conceptual modelling or related areas.

TECHNICAL QUALIFICATIONS

- Experienced with Python, SQL & web development. Projects at www.matthewtheisen.com
- Experienced with Python packages scikit-learn, nltk, numpy, pandas & Jupyter notebook.
- Expert in using MATLAB to model dynamic systems with differential equations.
- Familiar with Git, MongoDB, Tableau & Plotly.

PROFESSIONAL EXPERIENCE

Data Science Intern, *Leaf Group*, Santa Monica, CA

- Use natural language processing to build coherent corpuses for web content channels. Use TF-IDF, WordVec, DocVec, and NMF for topic modeling. Launched www.goneoutdoors.com with 2.5 average page views per visitor.
- Use SQL (PostgreSQL on AWS Redshift) to gather and analyze traffic data data, and NoSQL (MongoDB) to access and analyze our web content.
- Implement image categorization using deep learning in tensorflow with 92% test set accuracy.
- Implement A/B test of related article module. Increase related article clicks 180%.

Graduate Student Researcher, *UCLA*, Los Angeles, CA

- Used systems of differential equations to model biochemical systems.
- Integrated data from collaborators to quickly build and test models in MATLAB. Reported results to collaborators and funding agencies.
- Published two peer-reviewed research papers and textbook chapter.

EDUCATION

University of California, Los Angeles, *PhD in Bioengineering*, Los Angeles, CA – 2016

University of Minnesota, *BS in Chemical Engineering*, Minneapolis, MN – 2011

SELECTED INDEPENDENT DATA PROJECT

Los Angeles Neighborhood Ranker, *Data Analysis & Interactive Web Application*, bit.ly/LA_rank

- Los Angeles neighborhood data scraped from web and collected from Zillow & Yelp APIs.
- Users select and rank features of interest.
- Python back end with Flask framework and leaflet.js map visualization.

OTHER

- **Data blogging:** Blog on a variety of data-related topics. Link: bit.ly/data_blog
- **Video producer:** Won UCLA video contests for \$3,000 in winnings. Link: bit.ly/ucla_vids
- **Hobbies & interests:** cycling, hiking, data science, science policy, bicycle advocacy.