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## + summary

I am a data engineer/scientist that builds simple, clean, and efficient solutions to complex machine learning problems. I am here to positively contribute dedication, wit, and passion to a company's story, community, and the surrounding world.

During college I completed a number of research projects and case study analyses on topics ranging from music and the built environment to quantitative analysis of climate change modeling techniques. I have always had a love of computer science, going so far as to enroll in multiple CS courses during high school and complete a number of CS courses alongside my double major in Geography and Environmental Studies.

Data science allows me to combine my experience during college and my passion for computers and analytical thinking. I decided to take a leap into the (somewhat) unknown.

My long term goal is to learn from the best until I am ready to start my own company that brings technology and innovation to the environmental sector through data science.

## + employment

## General Assembly

Data Science Immersive

- Intense 3 month session (75 hours a week)
- Dove deeply into a broad range of skills required to be an asset in an era of exploding growth in machine learning, data collection, data management, and effective data analysis.
- Gained the skills necessary to step into the world of data science.

### Recruiter

**Building Robotics** 

#### 2016 to 2016

- Learned or used existing technical knowledge to effectively screen for front end web developers, resulting in two full-time additions to a small, tight-knit team.
- Responsible for timely scheduling of back-end screens, all technical interviews, and on site interviews.

#### Hospitality and Customer Service

Various companies

### 2007 to 2016

- Improved daily traffic and operations of a new restaurant by selecting inventory, producing a drink menu, instituting a happy hour, and training staff.
- Promoted teamwork in the workplace through conflict management, communication, respect, and cooperation.
- Developed strong organizational skills through event coordination and inventory management.
- Required competence and collectedness while working under pressure.

# + projects

## Career Recommendation System - Client Project

Dec 2016 to Dec 2016

A local start up asked for a job and skills recommendation engine to help give users an idea of what they can do to change their career.

- Text scrubbing and cleaning was followed by TFIDF vectorization to extract relevant text features from user job descriptions and skills.
- Cluster job titles using agglomerative hierarchical clustering in order to loosely represent industries.
- Assign a cluster to a new user with multinomial logistic regression and then recommend job titles from each
  of the clusters using cosine similarity comparison.
- Suggest the most common skills necessary for that job title.

#### Social Media Sentiment Analysis - Major Airlines

Nov 2016 to Nov 2016

- Explored the sentiment of tweets directed at major airlines as an example of how machine learning can leverage data from social networks to make data-driven business decisions.
- Natural language processing: TF-IDF, latent semantic analysis and a 'bag of words' approach.
- Utilizes PCA and SVD for feature reduction.
- Compares multiple clustering models.



Machine Learning

Natural Language Processing

Recommender Systems

Python

Java

HTML/CSS

Data Visualization (Seaborn, Tableau, Matplotlib)

Web Scraping

**Pandas** 

ETL

SQL

MongoDB

APIs

Chron Jobs

Big Data (Hadoop, AWS, SPARK)

A/B Testing

Time series data

Algorithms and Data Structures



General Assembly
Data Science Immersive 2016

University of Wisconsin-Madison BS Geography 2013 BS Environmental Studies 2013