

ZACHARY J. STERN

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PROFESSIONAL PROFILE

Unapologetic ingester of information. Passionate about data in all its forms. I love to share with others what I've learned and I welcome the difficult questions. Entrepreneurial + Inventive. Constantly curious.

COMPUTER SKILLS

Proficient: Python (Pandas, Numpy, Scikit learn, Matplotlib), Adobe Creative Suite.

Familiar: R, SQL, HTML, CSS, Tableau

RELEVANT EXPERIENCE

- Wrote a Python program that utilized photographic metadata as a method to aggregate and map information on houses including address, Google street view photo and Zillow price estimate.
- Built a Natural Language Processing model to classify the origin of Reddit postings.
- Created an accurate regression model of housing prices in Ames, IA using Python & Scikit-learn.
- Analyzed SAT-ACT testing participation rates and created a choropleth map using Python.
- Presented analysis performed on 500,000 Amazon reviews using AWS tools (Pig, Spark, Hive).
- Analyzed over one million lines of data for Montgomery County traffic violations, created predictive models using machine learning algorithms and mapped the data
- Investigated the correlation between opioid addiction at the county level to presidential voting preference.

PROFESSIONAL EXPERIENCE

General Assembly, Washington, DC

Data Science Immersive Student

Nov. 2018-Present

- Developed skills in data exploration, web-scraping, data cleaning, machine learning, data analysis and data visualization.
- Used Python libraries to build various regression, classification and unsupervised learning models including: linear and logistic regression, CART, KNN, K-means, ARIMA, SVM along with ensemble methods such as boosting, bagging.

Manganaro Midatlantic, LLC. , Beltsville, MD

Sr. Estimator/Project Manager

Oct. 2012-Sept. 2018

- Conceived, wrote and produced the company's first ever promotional video highlighting our work on a high-profile project. ([Watergate West Restoration Video](#))
- Collaborated with computer programmers to develop and implement changes to the company's database estimating software.
- Project manager for a \$2.6M mission critical restoration project at an active governmental agency campus involving extensive protection of existing electrical systems in place.
- Presented detailed cost analyses data to the Director of Preconstruction and the President for all masonry, concrete and building envelope restoration bids and presented our technical project approach to clients.
- Developed and implemented a training program for new project engineers. Directly supervised the document management staff.

Applied Restoration Incorporated, Lemon Grove, CA

Operations Director and Business Development Manager

2009-Sept. 2012

- Developed detailed technical proposals for design-build contracts resulting in over \$1M (20% of 2011 total revenue).
- Managed all field construction activities for Southern California, Nevada and Arizona which included: hiring and supervision of project managers, field superintendent and safety directors, implementation of our IT infrastructure, management of IT providers, and contract negotiations including damage claims.
- Moved the company to an all digital workflow including implementation of critical document tracking.

- Developed marketing and branding materials including developing websites, brochures, print ads and graphic design.

Estimator/Project Manager

2004-2009

- Led the estimating team with the highest gross sales for two consecutive years (over \$1.5MM each year).

Manganaro Corporation, Beltsville, MD

Project Engineer

2001-2003

- Manage extensive RFI/Change order database for multimillion-dollar construction projects at Georgetown University, INOVA Heart Institute and American Red Cross Center.

EDUCATION

General Assembly, Washington, DC

Data Science Immersive program

University of Maryland, College Park, Maryland

Master of Business Administration– December 2017

Concentration in Data Analytics

- GPA: 3.7 overall / 4.0 in concentration
- Relevant coursework: Data Models & Decisions, Data Mining, Big Data, IT Strategy, Systems & Design Thinking

Cornell University, Ithaca, New York

Bachelor of Science, Design + Environmental Analysis

Member: Cornell University Varsity Football, Sphinx Head Honor Society, Delta Upsilon fraternity

CERTIFICATIONS

Microsoft Essential Statistics for Data Analysis using Excel, Microsoft Analyzing and Visualizing Data with Excel