

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, Excel

Familiar: R, SQL, HTML, CSS, Tableau

RELEVANT EXPERIENCE

- Wrote a Python program that utilized photographic metadata as a basis 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 Reddit postings using the Scikit-Learn library.
- Created an accurate regression model of housing prices in Ames, IA using Python and Scikit-Learn.
- Analyzed SAT-ACT testing participation rates using Pandas 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 using R.
- 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-Sep 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.
- Presented detailed cost analyses data to the Director of Preconstruction and the President for all restoration bids and presented our detailed 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-Sep 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 and print ads.

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