

Chet Gutwein

www.chetgutwein.com

Email : chet.gutwein@gmail.com

Phone : +1-720-329-7808

www.linkedin.com/in/chet-gutwein/

PROFESSIONAL PROFILE

Innovative critical thinker with deep knowledge of latest machine learning, data engineering, and visualization techniques. Proven leader who successfully drives business development in a fast-paced environment and thrives in a customer-facing role providing organizations with data-driven solutions to business and regulatory problems. Excellent communicator with experience effectively advocating technical solutions to executive level decision makers.

EDUCATION

- **University of California, Berkeley** Berkeley, CA
Master of Information and Data Science December 2018
 - **Relevant Courses:** Research Design and Applications for Data Analysis, Statistics for Data Science, Applied Machine Learning, Data Visualization, Fundamentals of Data Engineering, Experiments and Causal Inference, Natural Language Processing, Scaling Up - Big Data, Capstone
- **Georgia Institute of Technology** Atlanta, GA
Bachelor of Science in Mechanical Engineering May 2007

PROJECTS

- **Recepticon:** Developed a recipe recommendation system using Python and Flask. Built a recipe data set by performing feature engineering on recipes from Epicurious using machine learning and NLP techniques such that it can be applied to any recipe. Presented as a finalist in the MIDS Capstone Showcase. [Demo](#)
- **All of Trump's Words:** Utilized Snapshot Language Models, an NLP analysis method, to determine the effect of the President's targeted messaging on online political discussion. [White Paper](#)
- **Bias in Attitude Towards Artificial Intelligence:** Conducted a study using survey data collected through Mechanical Turk utilizing specific messaging as an instrument to educate participants about AI. Utilized multiple regression analysis techniques in R to determine effect of messaging on participants. [White Paper](#)
- **Twitter Text Analysis:** Implemented a stream processing architecture using Apache Spark to ingest twitter data and process for NFL related tweets for sentiment. Results were used to track cumulative sentiment for each team and used to predict the winner of weekly contests. [Demo](#)
- **Carbon Emissions in the US:** Created an interactive, web-based visualization featuring carbon emissions data from the U.S. EPA and energy related data from the U.S. Energy Information Administration (EIA). Collaborated with two other students to design, prototype, and code customized visualizations in d3.js. [Demo](#)
- **Facial Keypoints Recognition:** Created a neural network model utilizing the scikit-learn module in Python to determine the location of fifteen (15) key points for the Kaggle Facial Keypoints Recognition competition. [Jupyter Notebook](#)

SKILLS AND TOOLS

- **Data Analysis & Machine Learning:** Python (NumPy, Pandas, Scikit-Learn), R, SQL, TensorFlow, Athena, BigQuery
- **Data Engineering:** Docker, Hadoop, MapReduce, Spark, Kafka, AWS, GCP, Softlayer
- **Data Visualization:** d3.js, Shiny, Flask, Tableau, Plotly, ggplot, Bokeh

EXPERIENCE

- **Mostardi Platt** Denver, CO
Senior Project Manager Feb 2017 - Present
 - **IoT Project Management:** Launched IoT and air sensor division for the purpose of developing expertise and pursuing opportunities in low-cost air sensor deployment, data management, and product delivery focused on a real-time IoT devices in the ambient air emissions domain. Developed live data dashboard in Shiny presenting real-time data sourced from PostgreSQL database in GCP. [Live Dashboard](#)

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- **Proven Leader:** Successfully managed initial launch of Denver branch office in April 2017 with over \$1,000,000 of revenue in first 18 months of operation.
- **Statistical Analysis and Technical Communications:** Managed, processed, and reported air emissions and facility operating data collected from industrial sites including regression analysis, data visualization, and supervision of precise scientific data collection techniques ranging from flame ionization detection for volatile organic compounds to Fourier-transform infrared spectroscopy.
- **Innovative Business Solutions:** Crafted company's first ever revenue forecasting model using multiple regression in R, integrating legacy databases, and developing an interactive dashboard in Shiny providing up-to-date reports of sales and business development efforts directly to the CEO.
- **Creative Data Analysis Reporting:** Managed \$200K SO₂ ambient air data collection project and developed interactive visualization using R and the Plotly library presenting real-time emissions data collected at an industrial facility.
- **Efficiency and Cost Savings:** Developed program in Python that converts standard internal data structures into .xml format suitable for importing into the US EPAs ECMPS database, reducing time spent on task by 75% and improving deliverable response time.

- **Airtech Environmental Services Inc. (now Montrose Environmental)** Denver, CO
Operations Manager Apr 2012 - Jan 2017
 - **Drove Business Development in High Growth Environment:** Led operations of dynamic technical consulting office generating annual revenue increase from less than \$1,000,000 to approximately \$3,000,000 in a five year period.
 - **Experienced Data Analyst in Customer Facing Role:** Managed a high-volume workload of approximately 80 projects per year accounting for an average of \$800,000 in annual revenue from 2011 through 2017, focusing primarily in the oil and gas, utilities, and cement industries.
 - **Technical Communications:** Authored first edition of Quality Manual in 2012 in order to comply with ASTM D7036 which was approved and achieved interim accreditation by the Stack Testing Accreditation Council (STAC).
 - Managed up to 17 direct reports, 10 of whom gained Qualified Stack Testing Individual (QSTI) certifications.
- **Airtech Environmental Services Inc. (now Montrose Environmental)** Denver, CO
Project Manager May 2010 - Apr 2012
 - Coordinated field activities associated with data collection projects, while also performing data analysis and reporting.
 - Collaborated with sales team to develop new client relationships and grow company market share within region.
- **Airtech Environmental Services Inc. (now Montrose Environmental)** Denver, CO
Test Technician Aug. 2009 - May 2010
 - Performed field tasks associated with data collection projects.
- **Schlumberger** Bakersfield, CA
Field Engineer Jul 2007 - Jun 2008
 - **Data Collection and Analysis:** Supervised performance of open-hole wireline data collection and well-site characterization at oil and gas production sites located throughout the San Joaquin Basin in California.