Timothy Martin

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Profile

Leader in data analytics strategy and implementation, with expertise in managing cross-functional analytics teams that provide technical solutions to core business issues and help organization-wide staff make more informed decisions quickly. Expert in simplifying and communicating complex information, project plans, strategy, and methodologies. Highly skilled with numerous enterprise and open-source technologies and data visualization tools.

Experience

Apr 2016 – Present

Chief Analytics Officer | NYC Department of Buildings, New York, NY

Provide strategic technical leadership in the development of analytics strategy, implementation, and optimization. Use data science techniques, machine learning, and computer science to improve performance, decrease risk, mitigate cost, and improve transparency. Inform statistical approaches, analytics best practices, effective quality control, and strategies for ensuring reproducibility and accuracy of results. Key accomplishments include:

- Reduced inspection response time by 75% through algorithm-based clustered routing
- Administered $5MM contract for enterprise analytics and data warehouse restructuring
- Deployed construction accident predictive model and developed list of top 100 critical sites
- Led GIS effort post-Hurricane Maria in Puerto Rico performing over 5K structural assessments
- Managed Open Data requirements by editing and publishing 20+ datasets for public consumption
- Provided keynote addresses and participated in industry-focused panels and roundtables
- Developed web-based Analytics User Guides to teach end users how to analyze business data
- Launched real-time major construction tracking application for industry and public use

Jul 2014 – Apr 2016

Business Intelligence Manager | NYC 311, New York, NY

Managed a team of analysts responsible for development and implementation of BI reports, KPIs, dashboards, and data models. Performed data mining, statistical analysis, and predictive modeling of complaint data, customer behavior, demographics, and performance indicators. Created interactive data visualizations and mapping applications. Implemented customer surveys and developed scripts for survey analysis. Supported ETL and API processes. Presented monthly high-level metrics and analysis to executive staff.

Jan 2009 – Jul 2014

WSI Program Manager | NYC DEP, New York, NY

Facilitated design of a $12MM early warning system, including development of a real-time, IOT platform for remote monitoring. Developed and managed KPIs to evaluate program operations, performance, and sustainability. Implemented large-scale, scientific data analytics applications. Managed data consolidation and implementation of specialized dashboards. Presented research at industry conferences.

Oct 2005 – Jan 2009

Research Scientist | NYC DEP, New York, NY

Analyzed environmental data for public health implications. Programmed and managed database applications and technical reporting. Developed and managed a pharmaceutical contaminant monitoring plan for NYC source water. Published peer-reviewed research. Presented findings at industry conferences.

Previous Positions

- **Business Operations Analyst** | L'Occitane en Provence, New York, NY (2003-2004)
- **Environmental Scientist** | SOTA Environmental Technology, San Diego, CA (2001-2003)
- **Agroforesty Volunteer** | US Peace Corps, Malawi, Africa (1999-2001)

Technical Skills

R	R::ggplot2	Tableau	Carto	Git
SQL	R::shiny	OBIEE	QGIS	Plot.ly
Python	d3.js	Power BI	Leaflet	HTML5

Education

- **MPA, Environmental Science and Policy** | Columbia University, New York, NY (2005)
- **BA, Environmental Science** | Willamette University, Salem, OR (1998)