CHRISTOPHER TEIXEIRA

Principal Data Scientist

PROFILE

Experienced Data Scientist with a strong background in statistics, data science, and operations research. Proven track record in leading complex projects for federal agencies, applying advanced analytics to address critical challenges, and responding to proposals. With a strong background in modeling and analytics, I have supported or advised across MITRE's breadth of FFRDCs, research programs, and corporate initiatives.

CONTACT

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EDUCATION

George Mason University – M.S., Operations Research   2008 – 2010
Concentration in Decision Analysis. Lead developer in algorithm design for integer programming for Northern Virginia Softball.

Worcester Polytechnic Institute – B.S., Mathematics   2002 – 2006
Focus in Applied Statistics and Probability. Designed an unbiased measure for defensive production in MLB.
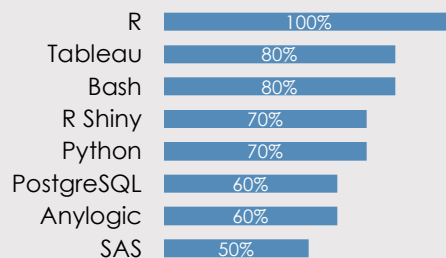
WORK EXPERIENCE

MITRE – Department Chief Engineer   2014 – Present
Apply expertise in data science, statistics, and data management in discussions with various federal agencies to understand their problem space, explain tradeoffs between different technical approaches, and translate into acquisition materials. Design and refine hiring processes for new and internal hires for internal positions. Provide oversight across multiple projects to ensure sound technical approaches and adherence to quality assurance processes. Mentor and guide staff to develop technical and management skills across challenging project environments. Train and support Program Managers and Group Leaders with techniques for engaging sponsors and managing staff. Contribute to several technical and cost proposals while managing the contracting process to establish new projects.

Epsilon – Senior Analytics Consultant   2012 – 2014
Work closely with remote clients to understand their needs and translate into tasking for team members. Lead small teams to perform various statistical and data analysis studies using a combination of SAS, Netezza, Tableau, R, and Python. Provide division wide support as an integer optimization expert and assisted in business development activities, including writing proposals and initial scoping of projects with clients.

IBM – Advanced Analytics Senior Consultant   2011 – 2012
Work on site with clients (JIEDDO and Aetna), collaborating with other contractors on data analysis projects using SAS products. Support business development activities for federal and private clients and work with contracts to submit proposals.

SAIC – Operations Research Analyst   2006 – 2011
Contribute to multiple projects using my knowledge of mathematics, statistics, and operations research across multiple Federal agencies including NASA, FEMA, and HSARPA.

SELECTED PROJECTS

MITRE – IRS – Enterprise Data & Analytics Support   May 2024 – May 2025
- **Project Leadership:** Manage a diverse team of 15+ staff to establish an enterprise approach to managing data and analytics.
- **Strategic Guidance:** Draft a strategy to use, develop, and ensure trust in AI and Machine Learning applications across the agency.
- **Stakeholder Engagement:** Engage with senior leaders across the agency to establish a data strategy for the agency.
- **Trusted Advisor:** Support the growth of a new division within the agency.

MITRE – TSA – System Modernization   Oct 2023 – Feb 2024
- **System Design:** Designed a system architecture to host a web interface and Postgres database that enables TSA the ability to review reports, perform sensitivities analyses, and establish a governance process for sharing information.
- **Rapid Prototyping:** Prototyped a web interface and back-end data storage with Python using Pandas and Flask.
- **Data Governance:** Outlined a data governance process to accommodate regular data refreshes, data quality checks, and other data shifts that could influence downstream calculations.

MITRE – CDC – Data Science Upskilling   Oct 2020 – Jun 2023
- **Project Leadership:** Managed a team of 10 staff with varied disciplines and specialties to help over 200 staff at CDC upskill in data science competencies.
- **Competency Identification:** Identify Data Science competencies and develop a strategy for increasing the CDC staff's skills in those competencies.
- **Technical Advisor:** Provide advice on the data science capstone projects for a number of teams that touched on data engineering, statistical analysis, machine learning, and data visualization.

MITRE – COVID-19 Healthcare Coalition   Mar 2020 – Sep 2020
- **Weekly Coordination:** Managed weekly presentations, discussions, and projects involving over 100 organizations.
- **Collaborative Analytics:** Facilitated collaborative analytics efforts among organizations, resulting in impactful insights.
- **Diverse Topics:** Coordinated discussions on data sharing, analytical approaches, and innovative visualization techniques.

MITRE – CMS – Opioid Overprescribing   Sep 2018 – Sep 2020
- **Project Leadership:** Served as project and technical lead, overseeing management and technical direction.
- **Interdisciplinary Team:** Directed a team of 30 staff from diverse backgrounds.
- **Data-Driven Analysis:** Utilized SME directed heuristics, statistical methods, and machine learning to identify abnormal opioid prescribing habits.
- **Stakeholder Engagement:** Supported the formation of two working groups in New Hampshire to inform and utilize the analytics.
- **Policy Recommendations:** Contributed to policy recommendations aimed at reducing opioid overprescribing.
- **Interactive Dashboard:** Developed an interactive dashboard to monitor progress in curbing opioid overprescribing and reduce unintended consequences.