

+ summary

Accomplished analytics manager with 12 years of data analytics, management consulting, IT support, project management, and analytics-operations expertise. Experience delivering machine learning (ML) anti-fraud capabilities in federal agencies, with a deep understanding of the intersection between technology and mission support.

+ experience

Enterprise Resource Performance Inc. (ERPi) Fairfax, VA
Data Scientist, Metis Data Science Bootcamp Jan. 2021 to Current

Data Scientist in the Metis 12-Week Data Science Bootcamp, gaining training in automated data collection and scraping, data engineering principles and setup, and machine learning modeling techniques and tools:

- *MTA Turnstile Analysis*: Use exploratory data analysis techniques to analyze turnstile data and identify deployment plan for advertising street teams.
- *Soccer Player Analysis*: Use linear regression to predict salaries of English Premier League players.
- *Fraud Classifier*: Build an XGBoost-based classification model to identify fraud instances from 500k transactions.
- *Veterans Affairs Tweet Analysis*: Conduct natural language processing topic modeling on tweets to Veterans Affairs accounts.

Manager, Digital Insights and ERPi Rapid Prototyping Lab (RPL) Oct. 2020 to Dec. 2020

Manager for RPL, ERPi's organization for bringing new technologies and innovations to the Federal market:

- Initiated agile-based product management processes and tools (e.g. Jira) and revamped image classification effort with the US Patent and Trademark Office (USPTO).
- Developed Joint Venture and Operating Agreement with partner firm for pursuits at National Institutes of Health (NIH).

Program Manager, Veterans Benefits Administration (VBA) Data Quality and Fraud Prevention Support Oct. 2016 to Sept. 2020

Program Manager (and previous Deputy Program Manager, and Fraud Analytics Task Lead) for 30+ person, geographically dispersed team establishing fraud prevention and data quality capabilities for the VBA:

- Guided creation of an XGBoost-based fraud classifier and data architecture for daily VBA transactions, proactively mitigating risk/lost fund impact for 8,000+ Veterans.
- Led deployment of data quality monitoring capabilities to address duplicate records for 3,000+ Veterans, and identified nearly \$300M in potential savings from duplicative or improper payments.
- Created recruiting pipeline for data science talent (Georgetown University), onboarding 3 personnel.
- Directed combined, agile-managed process-engineering, analytics, operations support across VA, VA Office of Inspector General (OIG), US Treasury, Department of Defense (DOD) & Department of Justice (DOJ) clients.
- Lead team member and recipient of *2020 Positive Disruptive Federal Programs* & *2020 Gears of Government* awards for establishing brand new VBA Fraud Waste Abuse (FWA) prevention organization.

Engility Corporation Chantilly, VA
Senior Project Manager Dec. 2008 to Sept. 2016

Served on leadership team for 120+ person fully remote team providing IT consulting to efforts across VA:

- Oversaw 5 project managers delivering requirements-gathering, system-design and program management support, achieving an average Quality Assurance Surveillance Plan (QASP) score of 4.74 across 5 completed projects.
- Previously supported the Department of Homeland Security (DHS), Enterprise Architecture PMO (EAPMO) office as a project manager as well as the US Coast Guard as a system admin.
- Recipient of Engility Impact, and Gold and Silver Awards for services to VA and DHS clients.

+ education

Georgetown University, Washington, DC
MS Applied Mathematics & Statistics 2016

McIntire School of Commerce, University of Virginia
BS Commerce 2008

+ skills

PROJECT MANAGEMENT: Jira, Agile, MS Project

LANGUAGES: Python, R

LIBRARIES: Pandas, Numpy, SKLearn, Beautiful Soup, NLTK

DATA VIZ: Tableau, Plotly, Dash, Matplotlib, Seaborn

ML ALGORITHMS: XGBoost, Mobilenet, Logistic & Linear Regression, NMF, CorEx & Word2vec

CLOUD & DATA STORAGE: Google Cloud Platform, Microsoft Azure

+ addtl. info

CLEARANCE

- Current: Department of Veterans Affairs, Public Trust
- Previous: DoD Secret (Active) and DHS Suitability with Secret access (Inactive)

CERTIFICATIONS

- PMI Agile Certified Practitioner (ACP)
- Project Management Professional (PMP)
- IT Information Library (ITIL) Foundation Level