

Richard Boulet

Data Scientist

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Lead Data Scientist

BayFirst Solutions, Transportation Security Administration

July 2015 - Present

- Leads a team of 5 in developing models for assessing risk from threat actors to domestic and international aviation.
- Reduced aviation threat assessment times by 75% by creating stochastic model with automated VBA procedures and user-friendly dashboard.
- Developed Congressionally mandated transportation sector security risk assessments integrating Monte Carlo simulation and Latin Hypercube Sampling, in collaboration with Homeland Security Studies and Analysis Institute federal think tank.
- Created sparse network analysis model in R calculating network centrality measures for aviation assets.

Analytics Team Lead

BayFirst Solutions, Department of Transportation

September 2016 – September 2018

- Led team of 3 to develop probabilistic economic consequence model that estimated impacts of large-scale HAZMAT explosions or fires on railways, in collaboration with Oak Ridge National Laboratory (ORNL).
- Developed Python scripts reducing economic impact assessment times from 300 hours to 15 minutes.
- Created model in C to integrate geospatial data and tabular data.

Program Analyst

BayFirst Solutions, United States Coast Guard

August 2014 – June 2015

- Developed cost-benefit analyses in Excel for procurements valued in excess of \$1 million for leadership decision-making processes.
- Created standard operating procedure documentation.
- Facilitated meetings with client leadership, authored briefings, and created Excel templates visualizing inventory data.

Education

University of Rhode Island, September 2010 – May 2014

B.S. in Business Administration, Concentration in Applied Finance

- One of 6 students selected to assist URI Neural Network Hedge Fund research and development.

Certifications

Project Management Professional (PMP) 2020

Six Sigma Green Belt 2016

Skills

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|------------------|-------|
| Python | ●●●●● |
| GIS | ●●●●● |
| VBA | ●●●●● |
| Machine Learning | ●●●●● |
| SQL | ●●●●● |
| R | ●●●●● |
| Excel | ●●●●● |
| C | ●●●●● |
| SAS | ●●●●● |

Additional Skills:

Power BI, Analytica,
Jupyter Notebooks/
Jupyter Lab, Palisade
@Risk, ESRI ArcGIS
Desktop and Online

Volunteer Work

Rural Dog Rescue
Adoption Event Shift Lead 2018 to Present

Johnnycake Food Center
Donations Event Organizer 2011 to 2018