# Richard Boulet

Data Scientist

# 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.

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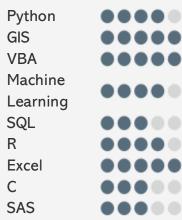
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## Certifications

Project Management Professional (PMP)	2020
Six Sigma Green Belt	2016

#### Skills



#### Additional Skills:

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

# Volunteer Work

Rural Dog Rescue	
Adoption Event	2018 to
Shift Lead	Present

Johnnycake Food	
Center	
Donations Event	2011 to
Organizer	2018