Dan Costa

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GitHub

Position Title	Education
Data Scientist	BS, Criminal Justice, Arizona State University, 2011 Data Science Immersive - General Assembly, 2022

Summary of Experience

- Proven performance in dynamic and high operational tempo environments.
- Performs well both independently or on teams to identify and implement dynamic and complex solutions for critical and hazardous problem sets faced by front-line operational personnel – experience primarily with law enforcement, military, retail, and wildland firefighting.
- Responsible for using historical data to find behavioral, spatial and temporal patterns involved in specific predatory activity (aka, crime pattern analysis and tactical military pattern analysis); then perform predictive analysis through the use of correlation, regression modeling, confidence interval analysis, lag analysis, as well as other techniques.
- Understands the principles of and has experience with applying statistical analyses and applies a robust array of geospatial and analytical techniques.
- Advanced with the following software applications:
  - Python
  - Microsoft Office (Excel, Word, PowerPoint)
  - PostgreSQL
  - ArcGIS (ESRI)
  - JDA Demand

Professional Experience

RedZone Software, July 2018 - March, 2021

Data Manager, July 2019 – March, 2021

- Managed tasks associated with onboarding customers by identifying and directing the management of information from various departments.
- Oversaw and managed customer data, while upholding industry security standards.
- Provided on-going support to client services, both from a data perspective and general business stance.
- Coordinated data related technical support, with a focus on creating automation of manual tasks.

Data Analyst, July 2018 – July 2019

- Managed reporting infrastructure to provide both internal auditing and customer facing reports leveraging SQL and HTML.
- Contributed to internal projects as both Project Manager and Data Analyst, such as a new software that allows front-end users to dispatch resources and collaborate with field teams during incident response.
- Provided customer-facing support, acting as a liaison between Software Engineers and customers.

- Supported the company's Intelligence Department by providing actionable intelligence on active threats.

L.L. Bean, Retail Planner, February 2016 – March 2018

- Worked in JDA Demand to forecast demand at the Item – Color – Store, by week, level across ~40 stores.
- Utilized a "bottoms-up" planning approach to align and translate the merchant vision into a financially viable sales plan.
- Conducted cluster analysis to influence Merchant assortments across categories.
- Analyzed in-season trends and results to positively impact inventory management activities; Buying, Allocations, Receipt Management.
- Provided influence and leadership to colleagues as a "JDA Demand Super User".
- Developed new tools and methodologies to improve forecasting efficiencies, such as a model to identify items which were especially reactive during promotional activity.
- Led a team of analysts on an internal project focusing on an improved promotional forecasting approach while partnering with other departments such as Marketing.

RedZone Software, Intelligence Analyst, December 2013 – March 2015

- Utilized ESRI's ArcGIS to facilitate disaster analysis, including but not limited to data acquisition, conversion, manipulation, geo-referencing, and cartographic design.
- Analyzed and integrated spatial data to provide actionable intelligence on active wildfires, floods, hurricanes, and other disasters nationwide.
- Gathered and evaluated social media sources to support intelligence.
- Managed and supported mitigation field teams during incident response.

BAIR Analytics Inc., Pattern Analyst, April 2012 – August 2013

Predictive Regional Crime Analyst for the County of Sacramento, January 2013 – August 2013

- Established a regional data sharing effort, through coordination between eight law enforcement agencies.
- Implemented Strategic, Tactical, and Predictive products to effectively and intelligently allocate public resources.
- Applied crime pattern analysis, spatial statistics, time series techniques, trend analysis forecasting, and mathematical principles required for developing, implementing, and explaining modeling of spatio-temporal behaviors to a unique crime problem set.
- Presented elaborate briefings to the Command Staff of each agency.
- Provided real-time tactical products in support of a specialized regional task force.

Joint Improvised Explosive Device Defeat Organization (JIEDDO) April 2012 – January 2013

- Applied pattern analysis, spatial statistics, time series techniques, and mathematical algorithms required for developing, implementing, and explaining next event predictions in support of the Counter-IED fight.
- Provided an array of geospatial, statistical, and analytical support to collaboratively assess and aid in the Counter-IED efforts.
- Assisted senior members in research and analysis related to process improvement, design implementation and technical support.