BRICE WALKER

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github.com/bricewalker

Data Scientist

SKILLS

- Languages: Python, R (R Studio, Tidyverse), SQL, KQL, C#, Java, Scala, HTML, CSS, JavaScript, PHP
- Analytics Tools: Excel, Power BI, Tableau
- Big Data: Hadoop, (Py)Spark, Databricks
- Databases: SQL Server, Kusto, PostgreSQL, MySQL, Oracle SQL, BigQuery
- Cloud / Virtual Computing: Azure, AWS, GCP/Google App Engine, Digital Ocean, Docker, Hyper-V
- Python / Anaconda Analytics Packages: Numpy, Pandas, SciPy, Matplotlib, Seaborn, and Bokeh
- Machine Learning Packages: Sci-Kit learn, XGBoost, LightGBM, (Regression, KNN, Tree Based Methods, SVM's, LDA/QCA/PCA, and Clustering/Ensembles/Bagging/Boosting)
- NLP / NLU Packages: NLTK, spaCy, genism, Stanford CoreNLP, TextBlob, Pattern
- Bayesian Analysis Packages: PyMC3, BayesPy (Markov chain Monte Carlo)
- Deep Learning Packages: TensorFlow, Keras, PyTorch, CNTK
- Web Dev: WordPress, Flask, Django, Apache, NGINX, Gunicorn

EXPERIENCE

Data & Applied Scientist 2, Microsoft – Redmond, WA 10/2018 – Present

- As a data analyst for SI&E - Threat Defense Engineering within the CSEO - Digital Security Risk Engineering organization, I am responsible for conducting user/entity behavior analytics using telemetry and intelligence data. My duties include: Supporting the development of data collection requirements for security event detection initiatives with cross-functional teams; Building unsupervised anomaly detection algorithms and AI/neural-network based intrusion detection systems to identify potential and active threats; Productionalizing machine learning models utilizing DSP modeling techniques for cyber threats; Developing recommendations on security event hypotheses. Accomplishments include building automated detections for 'impossible travel' using IP location data and phone registration changes, and automatizing detections of personal windows, macOS, and mobile (android and iOS) devices, helping the company's cyber defense operations analysts identify bad actors.

Board Member and Treasurer, Dual Diagnosis Anonymous – Portland, OR 08/2016 – Present

- Secured outcome driven grants and developed new measures of success for addictions services.

Addictions Counselor, ABHS – Chehalis, WA 09/2017 – 10/2018

- Increased outcomes through the implementation of a TC (a unique data driven initiative).

PROJECTS

- Automatic Speech Recognition for Edge Computing Devices
- Google Cloud 2018 Men's NCAA ML Competition
- House Prices: Advanced Regression Techniques

EDUCATION

Certifications – Microsoft Professional Program (Big Data, Data Science, Artificial Intelligence)
Data Science Fellowship – General Assembly (Analytics, ML, deep learning, and Bayesian analysis)
B.S. – University of Idaho (Organizational science, social cognition, and addictions research)