

BRICE WALKER

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github.com/bricewalker

Data Scientist

SKILLS

- Languages: Python, R (R Studio, Tidyverse), SQL, C#, Java, Scala, HTML, CSS, JavaScript, PHP
- Analytics Tools: Excel, Power BI, Tableau
- Big Data: Hadoop, Spark, Databricks
- Databases: SQL Server, PostgreSQL, MySQL, Oracle SQL, BigQuery
- Cloud/ Virtual Computing: Azure, AWS, GCP/Google App Engine, Digital Ocean, Docker
- 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, DIGITS, TensorRT, CNTK
- Web Dev: WordPress, Flask, Django, Apache, NGINX, Unicorn

EXPERIENCE

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

- Productionalized machine learning models utilizing DSP modeling techniques for cyber threats for the Security Intelligence & Engineering group within the Digital Security & Risk Engineering organization and developed recommendations on security event hypotheses. Conducted user/entity behavior analytics using telemetry and intelligence data. Built unsupervised anomaly detection algorithms and AI/neural-network based intrusion detection systems to identify potential and active threats. Supported development of data collection requirements for security event detection initiatives with cross-functional teams.

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).

Graduate Research Assistant, AU/LLU/PDX/OHSU/UI/WSU – Seattle, WA 02/2014 – 07/2018

- Completed secondary data analysis, qualitative surveys, data wrangling/munging, and GIS analysis for public health projects using R, Excel, and SPSS.

PROJECTS

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

EDUCATION

Data Science Fellowship – General Assembly (Regression, classification, and Bayesian analysis)

MOOC's – Python for D.S., Data Analysis in R, AI, Speech Recognition, Deep Learning, DSP, Azure ML

Graduate Coursework – PDX/OHSU (Public Health/Epidemiology/Data Analysis), JHU (Data Science)

B.S. – University of Idaho (Organizational science, social cognition, and addictions research)