Ryan **Johnson**

DATA SCIENTIST · ANALYTICS

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Summary

Current Data Scientist at small utility analytics company, The Energy Authority. 3+ years experience in Data Science specializing in time series analysis, data visualization, and process management. Skilled problem creator who loves nothing more than being proved wrong. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Skills

DevOps	Git, Docker, Kubernetes, Jenkins
Database	SQL Server, MongoDB, REST API
Machine Learning	Keras, TensorFlow, tidyverse/tidymodels
Programming	R, Python, C++
Languages	English, German

Work Experience

The Energy Authority
Bellevue, WA

DATA SCIENTIST - ANALYTICS
Sep. 2019 - Present

- Redesigned existing Load Forecasting system (30+ clients), transistioning from MATLAB to R and serving forecasts via Plumber REST API. Implemented ML methodologies (Feature Selection, Resampling, Normalization) and models (RNN/CNN, XGBoost, Regularized Regression).
- Lead transition through new CI/CD platform, RStudio Connect, for hosting containerized web-applications (R-Shiny) and scheduled tasks/ reports. Integrated platform with tech stack, enabling push-based deployments and builds directly from GitHub repos.
- Designed and implemented SQL database for centralized logging of scheduled tasks.
- Redesigned Hydro Forecasting system, incorporated new technologies (USACE REST API, centralized logging, automated emails via SMTP client) and regularly scheduled execution. Implemented ML diagnostic tools and visualizations.
- Continued development and maintenance of Analytic's web applications for both internal and external use.

The Energy Authority
Bellevue, WA

ANALYTICS INTERN
Mar. 2019 - Sep. 2019

- Supported other analysts in the maintenance and development of machine learning models, time series analysis, and data processing
- Redesigned existing Analytics web applications and visualization tools via 'R Shiny' framework.
- Communicated actionable data insights and issues to management to support decision processes.

Equinix
Sunnyvale, CA

BUSINESS SYSTEMS ANALYST INTERN
Jun. 2018 - Sep. 2018

- Analyzed and optimized current tech stack along key performance indicators
- Created and updated IT application runbooks for core applications.
- Built reports and dashboards to measure success and operational efficiency.

Education

University of Washington
Seattle, WA

MS IN APPLIED MATHEMATICS: COMPUTATIONAL FINANCE
Sep. 2018 - Dec. 2019

- Recipient of the Professional Excellence Award for distinguished academic merit and professionalism.
- Studies included statistical modelling, machine learning, and probability.

Santa Clara University
Santa Clara, CA

BSc IN MATHEMATICS AND COMPUTER SCIENCE
Sep. 2014 - Jun. 2018

- Graduated with dual emphases in Data Science and Financial Mathematics with a minor in German Language & Culture.
- Recipient of the Paul R. Halmos Award for Outstanding Academic Record.
- Teaching Assistant for Intro. to Computer Science, Object Oriented Programming (C++), Cryptography, and Data Science. Research Assistant in Data Science.
- President of Pi Mu Epsilon (Mathematics Honor Society) and the Santa Clara Math/CS Society.