Ryan **Johnson**

DATA SCIENTIST · ANALYTICS

Seattle, WA 98119

+1 (253) 315-0389 | rtjohnson1206@gmail.com | rtjohnson12 | rtjohnson12

Summary

I am currently a Data Scientist at small utility analytics company called The Energy Authority with 3+ years experience in Data Science, specializing in time series analysis, data visualization, and MLOps. I am always interested in devising a better problem-solving method for challenging tasks and looking for excuses to incorporate new technologies and tools should the need arise.

Skills

DevOps	Git, CI/CD, Containers, SQL Server, MongoDB, REST API
Data Science	Keras, TensorFlow, tidyverse/tidymodels, scikit-learn, pandas
Programming	R, Python, C++
Languages	English, German (B2)

Work Experience

The Energy Authority   *Bellevue, WA*
DATA SCIENTIST - ANALYTICS   *Sep. 2019 - Present*

- Lead effort to redesign existing Load Forecasting system of 30+ clients. Implemented ML methodologies (Feature Selection, Resampling, Normalization) and models (RNN/CNN, XGBoost, Regularized Regression) to reduce forecast MAPE to between 4-8%.
- Lead transition to new CI/CD service, hosting containerized web-applications and scheduled tasks/ reports. Integrated platform with tech stack, enabling push-based deployments and builds directly from code repositories.
- Designed and implemented SQL database for centralized logging of scheduled tasks.
- Redesigned Hydro Forecasting system, developing new technologies such as new SQL Schema for data storage, logging for model runs, and automated distribution of performance report to forecast stakeholders.
- 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 several existing Analytics web applications and frameworks allowing for faster data retrieval and an integrated system for generating reports for client presentations.
- Communicated actionable data insights and issues to management to support decision processes, including changes to long-term econometric forecasting methodologies resulting in an average of 10-20 hours saved in work-hours per client.

Equinix   *Sunnyvale, CA*
BUSINESS SYSTEMS ANALYST INTERN   *Jun. 2018 - Sep. 2018*

- 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 modeling, 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 (Python). Research Assistant in Data Science.
- President of Pi Mu Epsilon (Mathematics Honor Society) and the Santa Clara Math/CS Society.