Ryan **Johnson**

DATA SCIENTIST · ANALYTICS

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Summary

I am currently a Data Scientist at small utility analytics company called The Energy Authority with 2+ years experience in Data Science, specializing in feature selection, time series analysis, data visualization, and MLOps. I am always interested in devising a better problem-solving method for challenging tasks and incorporating 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*

- Redesigned existing Load Forecasting system of 30+ clients, implementing cross-fold validation, an outlier detection pipeline, and new ML models including RNN/CNN, XGBoost, and Random Forecast, ultimately reducing forecast MAPE by between 4-10%.
- Lead team transition to new CI/CD system for running containerized applications and scheduled tasks/ reports. Integrated platform with tech stack, enabling push-based deployments and builds directly from code repositories. Created and presented new team standards for project version control, database integration, and production deployment.
- Designed and implemented SQL database for centralized logging of model runs and scheduled tasks.
- Redesigned Hydro Forecasting pipeline, incorporating new data feed API's from North-West river system and plant-level generation. Implemented and fit 15+ constituent models for ensemble approach reducing system level MAPE by 5%. Developed web application for forecast monitoring and diagnostics.
- Continued development and maintenance of other ML models and 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 Progamming (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.