Ryan **Johnson**

DATA SCIENTIST · ANALYTICS

Seattle, WA 98119

☐ +1 (253) 315-0389 | ✉ rtjohnson1206@gmail.com | ⌨ rtjohnson12 | ▣ rtjohnson12

Summary

I am currently a Data Scientist with 2+ years experience, specializing in feature selection, time series analysis, data visualization, and MLOps. I am deeply passionate about devising a better problem-solving method for challenging tasks and creating clear and actionable insights from diverse datasets.

Skills

Data Science pre-processing pipelines, feature engineering, model validation/tuning, ensemble prediction, deep learning

Languages Python (*keras, sklearn, pandas, geopandas*), R (*tidyverse/tidymodels*), SQL

DevOps model deployment, version control (*git, github*), CI/CD, database integration (*SQL Server, mongoDB, REST API*)

Work Experience

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

- Redesigned existing Load Forecasting system of 30+ clients, implementing k-fold cross validation, an outlier detection pipeline, and advanced ML models including RNN/CNN, XGBoost, and Random Forest, ultimately reducing forecast MAPE by between 4-10%.
- Redesigned Hydro Forecasting pipeline, incorporating new data feed API's from North-West river system and plant-level generation. Implemented 15+ constituent models for ensemble approach, reducing system level MAPE by 5%. Developed web application for forecast monitoring and diagnostics.
- Lead 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.
- Worked with Software Engineering team to develop model failsafe system providing forecasts to real-time traders during critical data feed failures.

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 of organizational initiatives.

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 emphasis in Data Science 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.