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
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.