

Daniel Schauder

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SUMMARY

An intensely driven technical contributor with considerable expertise in the collection, management, visualization, and analysis of data seeking a hands-on, high-impact role using the latest modeling techniques to drive strategic value

TECHNICAL SKILLS

- Modeling techniques including regression/logistic regression, generalized linear models, time series forecasting, decision trees, bootstrapping, boosting, bagging, clustering, optimization and linear programming, monte carlo simulation, principal component analysis, and reinforcement learning
- Extracting and processing data from relational and NoSQL databases, JSON, XML, API's, semi-structured and unstructured text with a variety of tools including R and Python (Jupyter, NumPy, Pandas, SciPy, Matplotlib, scikit-learn, PuLP, CVXPY, etc)
- Design and development of reports, dashboards, and scorecards using Tableau, Sisense, and D3
- Cloud-based scalable tools and architectures (Serverless Framework, AWS, API Gateway, Lambda Functions, S3, Cloudwatch, DataDog, Docker)
- Extensive experience with Microsoft SQL Server, including query composition, stored procedures, triggers, views, and indexes
- Web development with HTML, CSS, PHP, JavaScript

EDUCATION (current)

Georgia Institute of Technology, GPA 4.0 **September 2020 - Expected Completion December 2021**

- Master of Science, Computational Data Analytics

Recent Projects

- A similarity graph visualization for high school students to explore US colleges along with predicted student loan repayment rates in a custom web application built with Firebase deployed on Google Cloud Platform (viewable at <https://www.collegeseeeker.net>). Piloted with 100 high school students in McKinney, Texas, 78% of whom indicated they discovered more than 5 new colleges and 98% of whom indicated they were more aware of loan repayment rates
- An automated stock trading algorithm using a Q Learner (reinforcement learning agent) producing average cumulative returns 300% better than a manual trading strategy in backtests
- An exploration of US TV News Networks using terabyte-scale public data from the Global Database of Events, Language, and Tone. Analyses included a Multinomial Naive Bayes Classifier to predict news networks based on their language use, a comparison of networks using cosine similarity score, Latent Semantic Analysis for Dimensionality Reduction, and topic discovery using a Gaussian Mixture Model and Expectation Maximization

TECHNICAL EXPERIENCE

Cadent; *Business Intelligence Manager/Business Intelligence Director (December 2017 - August 2020)*

- Promoted from Manager to Director in November 2019
- Managed 2 Agile development teams and 1 operational team consisting of 12 direct reports
- Oversaw successful deployment of over a dozen automation projects to modernize and standardize reporting products and reduce manual overhead by more than 40%
- Collaborated with Product, Data Engineering, Data Warehouse, and Data Science groups on a major overhaul of reporting architecture from siloed legacy systems to a central data lake in AWS

- Defined and enforced best practices including code reviews, version control using Git and Azure DevOps, and technical documentation in Confluence
- Led the design and implementation of solutions for internal and external stakeholders to effectively analyze and visualize data (ETL, algorithm development, dashboards, scorecards, and web applications)
- Implemented JIRA ServiceNow to track and manage ad hoc reporting requests, creating greater transparency for stakeholders and reducing request turn times by 15%
- Partnered with Product teams and end users to customize analytics solutions for business needs
- Engaged with consultants and vendors to evaluate new products, solutions, and design patterns

NewRez, LLC (formerly New Penn Financial, LLC); BI Developer/BI Manager (June 2014 - December 2017)

- Promoted from Developer to Manager Jan 2017; recognized as employee of the month Feb 2017
- Provided technical guidance and leadership to a team of 4 analysts/developers
- Oversaw compliance reporting, including a major overhaul of the quarterly NMLS Call Reports leading to a time savings of 40 hours per month
- Designed, built, deployed, and maintained a web app used throughout the organization to track and manage millions of dollars in monthly loan sales
- Engaged with customers at every level of the 1500+ employee organization to understand business problems and provide value-based opportunity assessments focused on driving key KPI's
- Extracted data from Tableau's PostgreSQL database to gain insight on performance and usage, devise improvement plans, and perform backup operations
- Utilized Tableau Data Engine API, Javascript API, and REST API to extend product functionality

ADDITIONAL EDUCATION & CERTIFICATES

University of Illinois at Urbana-Champaign; Data Structures Coursework Completed Feb 2020

- Completed certificates in Object-Oriented Data Structures in C++, Ordered Data Structures, and Unordered Data Structures

University of Richmond, Richmond, VA, GPA 3.83 Graduated Summa Cum Laude in May 2011

- BS in Business Administration, Concentration in Management (Innovation & Entrepreneurship Track)
- BA in Music, Concentration in Arts Management
- Academic honors including Richmond Boatwright Scholar (**full tuition academic scholarship**), Golden Key, Beta Gamma Sigma, Phi Eta Sigma, Phi Kappa Mu, and Dean's List (all semesters)

Escola de Administração da FGV, São Paulo, Brazil Completed December 2009

- International Program in Management, Certificate

ADDITIONAL EXPERIENCE

Mondo; Account Manager/Account Director (January 2013 – March 2014)

- Managed relationships with Fortune 1000 companies including Cigna, Sunoco, Penske, Ahold USA
- Trained and led a team of 3 junior account managers

Market Resource Partners; Account Executive/Partner Account Manager (May 2012 – December 2012)

- Managed relationships with dozens of key clients including DELL, IBM, Cisco, APC, and EMC

Mercury Event Webcasting, LLC; President (Spring 2011 – May 2012)

- Won a cash award from angel investors and venture capitalists in University of Richmond Business Pitch Competition (Spring 2011)
- Formed an LLC, designed web and print marketing materials, developed supply lines for webcasting components, performed accounting functions, worked with business leaders and individuals to broadcast events online
- Designed and built a webcasting system using HTML, CSS, PHP, MySQL, Adobe Creative Suite, Adobe Flash Media Live Encoder