

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, 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 Python, R, and SAS (Jupyter, NumPy, Pandas, Matplotlib, scikit-learn, XGBoost, LightGBM, Treelite, MLFlow, PySpark, PuLP, CVXPY, etc)
- Design and development of dashboards and reports using Tableau, Sisense, PowerBI, and D3
- Cloud-based scalable tools and architectures (AWS, API Gateway, Lambda Functions, S3, Cloudwatch, DataDog, Docker, Managed MLFlow)

TECHNICAL EXPERIENCE

Liberty Mutual Insurance; *Data Scientist II*

December 2021 - Present

- Led a significant expansion of real-time customer retention ML models driving ~\$3.1 million of customer lifetime value annually
- Completed 3 automation projects to streamline ML monitoring processes, saving ~30 hours of manual effort monthly, enabling tuning and maintenance to improve model effectiveness and better alignment with shifting business priorities
- Conducted exploratory analysis to evaluate event-stream data for customer journey analytics, identifying key potential triggers for customer churn
- Experimental design and implementation of A/B tests to measure incremental value and promote data-driven decision-making

Cadent; *Business Intelligence Manager / 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 12+ automation projects to modernize and standardize reporting products and reduce manual overhead by more than 40%
- Implemented JIRA ServiceNow to track and manage ad hoc reporting requests, creating greater transparency for stakeholders and reducing request turn times by 15%
- 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 design and development of ETL, dashboards, and web apps driving interactive data visualizations

NewRez, LLC (formerly New Penn Financial, LLC); *BI Developer / Manager*

June 2014 - December 2017

- Promoted from Developer to Manager Jan 2017; recognized as employee of the month Feb 2017
- Oversaw a major overhaul of quarterly compliance reports yielding time savings of 40 hours monthly
- 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 target KPI's

EDUCATION

Georgia Institute of Technology, GPA 4.0

September 2020 - December 2021

- Master of Science, Computational Data Analytics

Academic 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.collegeseeker.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

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