Daniel VanLunen

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EDUCATION

University of California, Berkeley, *Master of Information and Data Science* **Expected May 2019**
Coursework: Applied Machine Learning, Fundamentals of Data Engineering, Statistics for Data Science
Concepts: Convolutional Neural Networks with Keras and Tensorflow, scikit-learn, Regressions, Naïve Bayes, Decision Trees, Bagging, Boosting, Docker, Hadoop (Kafka, Spark, HDFS), ggplot2

Brown University, *Bachelor of Arts in Applied Mathematics, Magna Cum Laude* **May 2011**
Phi Beta Kappa; Sigma Xi; Rohn Truell Prize for Outstanding Work in Applied Mathematics (best thesis in class)
Published Work: "Quantifying Temporal Correlations: A Test-Retest Evaluation of Functional Connectivity in Resting-State fMRI." *NeuroImage* (2013).

EXPERIENCE

Alivia Technology – Boston, MA **December 2016 – present**
Data Scientist and Product Manager

- Identified $10M of fraud analyzing Medicaid claims with SQL and R over the course of a 2-month project.
- Led budgetary non-compliance project, resulting in 60 fewer hours of work for client annually. Identified business objectives with client, worked with systems administrators to gather necessary data sources, explored and cleaned data in R (data.table), collaborated with subject matter experts to engineer risk features, and automated report production.
- Developed training for and taught over 75 non-technical clients to use proprietary software, SQL, and R to load, clean, explore, and analyze data.
- Planned and presented pitches for data science projects to potential clients in varied industries.
- Managed demo environment's EC2 instance, reducing company's monthly AWS bill by thousands of dollars.
- Denormalized client database to allow non-technical staff to easily query key information.
- Doubled internal issue resolution speed by switching issue tracking from Excel to Redmine and planning Agile sprints for developers to prioritize content.

Charles River Associates – Boston, MA **June 2015 – November 2016**
Associate, Competition Practice

- Assembled, processed, cleaned, and merged large and messy datasets (~100M rows, 100s of fields) using SAS, Python, and SQL to create inputs for economic models that forecasted the impact of mergers and anticompetitive conduct on markets.
- Explored data and engineered features to improve accuracy and make results more meaningful. Reduced a client's liability estimate by 50% ($10M) by updating case definition and accounting for confounding variables.
- Developed a SAS macro library to automate common tasks and simplify learning SAS syntax, which was distributed by supervisor to 30 junior staff members to improve coding efficiency.
- Wrote Python scripts to scrape data and trained others on how to use them, saving team 5 hours of work each week.
- Crafted Excel presentations to illustrate pharmacy competition in the US, which helped to convince the Federal Trade Commission not to challenge a client's $1.9B merger.

Massachusetts Attorney General's Office – Boston, MA **October 2013 – June 2015**
Economic Analyst, Antitrust Division

- Collaborated with economists to create and test models, such as multinomial logistic regressions to predict patient choices and multivariate regressions to measure brand strength.
- Briefed non-technical attorneys on economic models in a successful legal challenge of proposed hospital mergers that was predicted to cost MA taxpayers $49M a year.

Teach For America, Oakland Unified School District – Oakland, CA **June 2011 – June 2013**
Science and Math Teacher – Roosevelt Middle School

- Nominated for Sue Lehmann Excellence in Teaching and LMU Outstanding First Year Teacher in Urban Education awards for achievements teaching at a school tied for the lowest test scores in the state.
- Designed curricula for and taught a diverse set of students with different backgrounds and proficiency levels.

Languages/Software: SQL, R, Python, SAS, Excel, MATLAB, JavaScript, Java
Interests: Combining dogs and Shakespeare's works, breakdancing, learning new skills