

# ALEXANDER BENNETT

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## TECHNICAL PROFICIENCIES

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Python (pandas, numpy, seaborn, scikit-learn and matplotlib), clustering, dimensionality reduction, PostgreSQL, AWS, Apache Spark, Flask, ETL pipelines, Tree ensembles, Neural Networks, Gradient Boosting, Ensemble methods, machine learning, data engineering, unit testing, statistics, exploratory data analysis (EDA).

## NOTABLE PROJECTS

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### SOUND DRIP – [sound-drip.com](https://sound-drip.com) (03/2020)

- Built a production-level KNN machine learning model on a manually-aggregated dataset of over 700,000 songs. Tested other supervised and unsupervised learning methods to improve performance. Launched back-end PostgreSQL database. Deployed using AWS.

### AIRBNB OPTIMAL PRICING – [airbnb-optimizedpricing.now.sh](https://airbnb-optimizedpricing.now.sh) (11/2019)

- Developed a random forest machine learning model to make supervised predictions on Airbnb data. Deployed production algorithm to flask and integrated applications with back-end developers to feed recommendations to the database.

### COPSTOP PREDICTIONS – [Medium Article](#) (09/2019)

- Accessed City of San Diego's data portal and reviewed every instance of an officer pulling someone over from July 2018 to July 2019. Built a random forest machine learning algorithm to predict leading causes for tickets. Optimized performance through feature engineering, as well as explored and visualized data.

## PROFESSIONAL EXPERIENCE

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### Lambda School | Data Science Team Lead | San Diego, CA

08/2019 to Present

- Led project builds for a team of 30 data science candidates in machine learning and data engineering.
- Mentored candidates on machine learning projects, providing one-on-one feedback and code reviews.

### Addepar | Data Analyst | Salt Lake City, UT

08/2018 to 08/2019

- Conducted raw data analysis received from custodial accounts to ensure accuracy and consistency, meeting daily reconciliation standards, including EOD pricing and data for over 300 firms and their client accounts worth over \$1 trillion.
- Used Java to investigate and troubleshoot data pipeline and complex custodial feed issues.

### Deseret Mutual Benefit Administrators | Investment Analyst | Salt Lake City, UT

01/2017 to 07/2018

- Analyzed corporate debt instruments for a \$4 billion fixed income portfolio, recommending current and prospective investment holdings with industry analytics tools, including Bloomberg.

## EDUCATION AND TRAINING

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### FELLOWSHIP, DATA SCIENCE/MACHINE LEARNING (2020) – Lambda School

- A nine-month mastery-based intensive full-stack data science program; Completed over 2,500 hours of programming in Python, Keras, TensorFlow, SQL, Scala and Apache Spark.

### BACHELOR OF SCIENCE, FINANCE (2018) – University of Utah, David Eccles School of Business