# Dominik Huffield

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## SUMMARY

A resourceful individual possessing expertise in statistical model development and scalable data storage. Specifically, skilled in scrutinizing large data sets through a combination of architecture and machine learning to yield signal within the engulfing noise.

## SKILLS

*Highlight Skill:*     _Collaborative Problem Solving_

**Programming Skills:**   _Python_, Java
**Machine Learning:**    _PCA_, Cross-Validation, _Time-Series-Decomposition_, _Gradient-Descent_
**ML Tools:**    Numpy, Pandas, _Scikit-Learn_, matplotlib, Tensorflow
**Data Visualization:**    PowerBi, Matplotlib, Tableau
**Data Skills:**    Wrangling, Storytelling, Analytics, Visualization, _Feature-Engineering_, Stats-Modeling
**Data Storage:**    SQL, noSQL, MongoDB, Redis

## PROJECTS

**Financial Spending Model** – **Python**
- Model of government finances and local crime statistics relationship
- Drove the development of a strategy to effectively reduce crime
- Wrangled data from BLS, Census, FBI and GFD to augment existing database.
- Delivered pipelines to output insightful visualizations and to train a Time Fixed Effects Regressor.

**Bioinformatics** – **Java**
- A gene bank storage system for long-term storage any provided sequence of nucleotides.
- Presented solution for memory constraints utilizing our proprietary B-tree storage system.
- B-tree data structure housing encoded node data allowing O(log n) read time.

**Predict Future Sales** – **Python**
- Utilized sales data to build a machine learning model forecasting sales counts.
- Allows retailers to act preemptively and avoid negative effects from a bull whip along the supply chain.
- Pipeline handles stationarity, standardization, decorrelation then trains a deep learning model.

## EXPERIENCE

**Research Data Scientist** | *Boise State University* | Boise, ID     Jan 2019 – Dec 2019
- Collaborate with fellow researchers to advance production methods for bulk metallic glasses.
- Construct visualizations to deliver the team's experiment data in a digestible format.
- Preformed data cleansing and preprocessing to optimize the quality of ML models.
- Create ML models to identify alloys with high glass forming abilities.

**Data Analyst** | *Tis The Season LLC* | Boise, ID     Feb 2019 – May 2019
- A web-app aimed to connect homeowners with student labor by providing a booking service.
- Effectively managed client's requests by deploying a workforce of ~30 students.
- Managed the site's backend and SQL database housing client/employee data.
- Present visualizations of market research by forecasting financial benefit of fundraising.

## EDUCATION

**Data Science Career Track** | *Springboard* |     Aug 2020 – Dec 2020

**B.S. in Economic Analytics W/ Computer Science** | *Boise State University* |     Aug 2015 – May 2020