

## Summary

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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 noise.

## Education

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Boise State University – Boise, ID

- Bachelor's in Business & Economic Analytics

## Experience

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### Machine Learning Researcher

*Boise State University - Boise, ID*

Jan 2019 – Dec 2019

Collaborate with researchers (Material Science PhD students) to aid their research in bulk metallic glasses, specifically seeking methods of mass production. Operating as the teams data scientist my functional objective was to bolster the teams workflow and agility.

This objective was achieved by:

- 1) Constructing visualizations to better understand exploratory results
- 2) Performing data cleansing & preprocessing to optimize the quality of models input data
- 3) Training models to identify alloys with high glass forming abilities

Tools Used:

- MAST-ML: Materials Simulation Toolkit for Machine Learning

MAST-ML is an open-source Python package designed to broaden and accelerate the use of machine learning in materials science research.

- Python:

Programming language doing the leg work of projects; allowing for the ability to manipulate, move, clean and visualize experiment data.

### Data Analyst

*Tis The Season LLC - Boise, ID*

Feb 2019 – May 2019

One of the founding member of members; 'Tis The Season LLC' seeks to employ students doing miscellaneous tasks for our clientele (e.g. mowing lawns, babysitting, shoveling snow etc). This software at one point was successful enough to have possessed a workforce of nearly 30 individuals. Additionally we entered this software in the 2019 Idaho Entrepreneurial Competition and procured \$7,000 in prize money. Services were provided via the web or on mobile devices via the app store and googles play store.

Throughout the development of this proprietary software responsibilities included:

- Manage client/employee data in mySQL database
- Develop interactive dashboards visualizing analytics
- Analyze data to make growth projections for financial and market spending
- Segment client/employee data using clustering techniques