

# COLIN MIDDLETON, MS

Data  
Scientist

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## FAMILIAR TOOLS

Python: pandas numpy statsmodels scikit-learn matplotlib  
R | Java | SQL | Jupyter Notebooks | GitHub | LaTeX

## EDUCATION

Sep 2019 – Jun 2021	<b>Applied Mathematics, MS</b> Total Credits: 79 Awards: Outstanding Graduate, Graduate Service Appointment	<b>Eastern Washington University</b> GPA: 4.0
Sep 2013 – Dec 2017	<b>Mathematics, BS</b> Total Credits: 211 Minors: Honors, Chemistry Awards: Math Fellow	<b>Western Washington University</b> GPA: 3.5

## PROJECTS

Jun 2020 – Jun 2021	<b>Homelessness Prediction</b> Used Logistic Regression, Cox Proportional Hazards, and LSTM models with monthly customer utility payment data to predict risk of experiencing homelessness. Matched data and engineered new features. (Python + JupyterLab)	<b>Spokane Predictive Analytics</b>
Jan 2021 – Mar 2021	<b>Academic Paper Clustering by Topic</b> Collaborated on customized K-Means model to cluster text documents into groups by topic using bag-of-words TF-IDF representation and custom dot product distance metric. Custom output with intelligible group themes. Currently developing heirarchical (agglomerative) version. (Python)	<b>Big Data Analytics Class Project</b>
2017	<b>Traffic Prediction Senior Project</b> Employed averaging, PCA, and speed + distance ratio methods to predict traffic flow arriving at the US / Canadian border. (Excel)	<b>Whatcom Council of Governments</b>

## WORK EXPERIENCE

Oct 2018 – Current	<b>CAD Drafter</b> Draft architectural drawings using AutoCAD LT. Make design adjustments and suggestions. Research building code and construction product specifications.	<b>Brooks Middleton Architect</b>
Nov 2018 – May 2019	<b>CAD Drafter</b> Drafted architectural drawings using AutoCAD LT. Researched building code. Used Dropbox to share files.	<b>Beacon Rock Architecture Group</b>

## RELATED COURSEWORK

Apr 2020 – Jun 2020	<b>Advanced Topics in Statistics</b> Credit Hours: 5.00	<b>Eastern Washington University</b> Grade: A
Jan 2021 – Mar 2021	<b>Big Data Analytics</b> Credit Hours: 4.00	<b>Eastern Washington University</b> Grade: A