

**Objective:** To seek a position that utilizes my skills and promotes growth

**Summary of  
Qualifications:**

- Mathematics and data science background
- Experience with advanced ML algorithms, data wrangling, and data visualization
- Experience working in an AGILE environment
- Flexible and able to work under pressure with little supervision
- Ability to prioritize multiple tasks/projects
- Dedicated, conscientious, highly motivated and reliable worker
- Self-starter, detail-oriented, data driven, and quick learner
- Strong communication and analytics skills

**Education:**

**Michigan State University**

**East Lansing, MI**

Graduated 2020, MS in Mathematics

Cumulative GPA of 3.85

Specialized in: Machine Learning, Data Visualization, Topological Data Analysis

Relevant courses: Machine Learning in Python (3 semesters), Data Visualization

**University of Michigan**

**Dearborn, MI**

Graduated 2016 with high distinction, BA in Mathematics

Received Honors Scholar award in Mathematics, given to only one student each semester

Average GPA of 3.75

Relevant courses: Statistics, Probability, Linear Algebra, Multivariate Calculus, Stochastic Processes

**Projects:**

- Code and relevant papers on [Github](#)
- Assisted with data pre-processing and coding of algorithms for a research project in network fairness which could lead to new metrics for quantifying fairness in classification problems involving network data – Spring 2020
- Reproduced the results of several machine learning research papers which involved feature extraction, feature generation via mathematical techniques including graph theory and kernel methods, and the implementation and training of RF, GBT, and CNN models for supervised regression tasks – Summer 2019
- Using only standard libraries such as Numpy, coded CNN, ANN, Random Forest, Decision Tree, SVM, KNN, logistic regression, and linear regression in Python from scratch – Fall 2018

**Professional  
Experience:**

06/15/2020 -  
Present

**Associate Software Developer**

**Auto-Owners Insurance**

Perform analysis to determine the best solution to business problems and the potential impact of code changes.

Create/modify JCL, COBOL batch and CICS programs to automate critical business functions such as monitoring premium and commission balances across many agencies, catching duplicate transactions, and integrating legacy processes with new software.

Collaborate with team members in an AGILE environment to meet production deadlines.

Work with Business Analysts and Quality Analysts from various departments to test fixes.

08/16/2017 -  
05/23/2020

**Graduate Teaching Assistant**

**Michigan State University**

Instructor of record for College Algebra, Business Calculus, and Quantitative Literacy.

Resolved student conflicts, facilitated group work, managed two ULA's and helped students individually in office hours.

Successfully advocated for and helped implement changes to the algebra course.

Mentored undergraduate research program.

10/03/2014 -  
09/01/2017

**Mathematics Tutor**

**University of Michigan**

Assisted students in mathematics and statistics, proctored exams, and collected customer data.

**Analytical Skills:**

Proficient in higher level mathematics including Multivariable Calculus, Linear Algebra, Topology, Machine Learning, Probability, and Statistics.  
Proven ability to quickly tackle new software and production pipelines.

**Programming Skills:**

Experienced in using Python libraries such as Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, and Bokeh for machine learning and data visualization projects.  
Mainframe skills including COBOL/CICS programming, JCL, and DB2 SQL.  
Received certification of completion for UC Davis' SQL for Data Science course which covered topics including joins, subqueries, aggregate functions, and ER diagrams.  
Familiarity with Tableau, scripting, and R.

**Data Skills:**

Pre-processing, cleaning, feature extraction, normalization, and visualization.  
Experience maintaining and sorting insurance policy data.

**Other Skills:**

Tableau, Github, Sublime Text, Microsoft Excel, command line, parallel computing via HPCC, Windows, Linux, JIRA, Confluence, and AGILE.