

# Seth Saperstein

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## EDUCATION

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### UNIVERSITY OF MICHIGAN

#### Ann Arbor, MI

*B.A. Data Science, Economics, and Mathematics of Finance and Risk Management*  
(Expected graduation Dec 2019)

- **GPA:** 3.5
- **Relevant Course:** Machine Learning, Applied Regression Analysis, Web Systems, Data Structures and Algorithms, Math of Finance, Econometrics, Probability Theory
- **Award And Honor:** University Honors ('18, '17, '16)
- **Extracurricular Activity:** Michigan Data Science Team - VP of Communications, French Club, Chi Phi

## WORK EXPERIENCE

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### X-MODE SOCIAL, Reston, VA

*Data Science Intern, Jun 2018 - Aug 2018*

- Implemented a series machine learning methods on location data using scikit-learn and pytorch, leading to a 8.4 percent increase in the accuracy of a visitation at a point-of-interest.
- Automated data cleaning and formatting process for 1.5 billion geospatial location data points daily by leveraging Python, AWS, SQL, and Hadoop, which led to a 20 percent reduction in pipeline latency.
- Leveraged machine learning methods to use GPS location data to more accurately predict quarterly revenue reports.

### NORTH AMERICAN BANCARD, Troy, MI

*Marketing Analyst Intern, Jun 2016 - Aug 2016*

- Project leader of competitive analysis projects, influencing price-setting strategies as well as a new social media campaign that led to a 40 percent increase in content views.
- Creation and analysis of email marketing campaigns with html and MailChimp.
- Publication of over 100 fin-tech and small business blogs, focused towards increasing media presence and increasing SEO.

## PROJECTS

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### *Map Reduce Engine (Web Systems course)*

- Implemented a Hadoop-like Map Reduce facility, with master and worker nodes for map-reduce operations over large data sets, with a distributed file system, and fault tolerance to address data node failures.

### *Real Estate Auction Site & App*

- Lead iOS and web developer for an auction-based marketplace for real estate sublets for students. This app was built on Swift, Python Flask, SQLite, and React, with heavy usage of Google Maps API, hosted through AWS.

## LEADERSHIP

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### *Michigan Data Science Team – VP of Communications*

- Manage internal and external communications for 500+ members. Hosted the first ever MDataHack, consisting of 100+ people, and 25+ teams. Aided in the creation of tutorials as well as organized project communication.

## ADDITIONAL SKILLS

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- c++ (advanced)
- Python (advanced)
- SQL (advanced)
- Swift (advanced)
- ReactJS / Javascript / html (advanced)
- R (intermediate)