

# ISAAC MCSORLEY

(319) 931-8757 | [isaac-mcsorley@uiowa.edu](mailto:isaac-mcsorley@uiowa.edu) | [github.com/immcsorley](https://github.com/immcsorley) | [linkedin.com/in/immcsorley](https://www.linkedin.com/in/immcsorley)

---

## EDUCATION

### THE UNIVERSITY OF IOWA

Master of Science, Business Analytics

December 2023

B.B.A., Business Analytics and Information Systems

December 2022

- **GPA:** 3.8/4.0, University Dean's List
- **Activities:** Graduate Teaching Assistant: Data Wrangling Class, Tippie Technology & Innovation Club
- **Classes:** Data Mining, Text Analytics, Database Management, Machine Learning/AI, Cloud Computing

## TECHNICAL SKILLS

**Tools** - Python (pandas, scikit-learn, matplotlib, NumPy), R, SQL, Power BI, Tableau, Salesforce, Excel, Azure

**Methodologies** - Skilled in data engineering, ML modeling, data wrangling/mining, statistical methods

**Certifications** - Microsoft Azure Fundamentals

---

## EXPERIENCE

### SPARTAN FORGE - DEER MOVEMENT PREDICTION APP

**Remote**

Machine Learning Research Intern

October 2022 - Present

- Assisted with the R&D of innovative AI solutions for projects to advance the capabilities of the application and reach more users
- Collected data for new vector mapping layers available from public GIS data that can be utilized in the app which reduces operational expenditure on overhead mapping services needed

### JP MORGAN CHASE & CO.

**Chicago, IL**

Global Finance & Business Management Summer Analyst

June 2022 - August 2022

- Provided financial analysis support to teams across 5 products and multiple lines of business
- Developed an extensive model to forecast the cost of funds changes due to Fed interest rate increases and released it to the investment bank commercial card team
- Accessed budget model performance and presented necessary mid-year adjustments to multiple teams

### THE UNIVERSITY OF IOWA COLLEGE OF NURSING

**Iowa City, IA**

Database Developer

February 2022 - May 2022

- Designed and built a relational database in Microsoft Access for the College of Nursing to be able to track more than 100 hospitals that use their nursing residency program every year
- Streamlined various data collection and reporting processes through Access queries and reports reducing invoicing and reporting times and increasing productivity by up to 50%
- Automated workflow processes such as data entry that save 4+ hours of manual labor per week

### HNI CORPORATION

**Muscataine, IA**

Data Analyst Intern

June 2021 - August 2021

- Formed a competitive analysis targeting growth in sales by analyzing data from the top 4 competitors to build a pricing strategy better aligned with the rest of the market
  - Performed ad hoc reporting: Used Salesforce to gather data, then cleaned and transformed the data into reports and visualizations using Power BI or Excel
- 

## PROJECTS (see GitHub)

**Churn Rate Predictive Modeling:** Analyzed a credit card company dataset. Training & validating a machine learning model which resulted in 86% recall, also identifying key variables that lead to customer churn

**Network Bandwidth Analysis:** Consulted with a nationwide retail store to analyze 20 store's network usage. Using numerous data sources, Python, and Tableau, recommended the reallocation of resources to specific stores to reduce operational expenditure from findings in data