



## EDUCATION

### M.S. Data Science (Computational Methods)

DePaul University,  
Chicago, IL / 2020 – Present

### B.B.A. Finance | Operations & Technology Management

University of Wisconsin-Madison,  
Madison, WI / 2014 – 2018



## PROFESSIONAL EXPERIENCE

### Consultant / Developer

October 2018 – Present

*Human Capital Research Corporation, Evanston, IL*

- Advise six university clients in areas including financial aid and merit strategy, student enrollment prediction and market analysis by cleaning, transforming and analyzing client's source data through descriptive statistics and modeling
- Initiated company transition to Python programming to improve the speed and robustness of automated client deliverables by showing seamless compatibility with most frequently used softwares like Excel, SPSS and Qualtrics
- Advanced company-wide client deliverables by introducing solutions such as optimization modeling for financial aid packaging, dynamic charting with Plotly, and more efficient predictive modeling for student enrollment with automated feature selection and model evaluation
- Manage an intern and junior developer on projects such as the design of two SQL databases, conversion of three excel macro-workbooks to web applications and the creation of a Python Flask server with API endpoints
- Converted 100,000+ excel formulas into Python methods in an object oriented framework that encapsulates commonly used business logic relating to data processing, transformation, modeling and data visualization output

### Healthcare Staff Consultant

June 2018 – October 2018

*Baker Tilly, Chicago, IL*

- Defined requirements for developer team to integrate large healthcare system's membership data onto web-based reporting tool that allowed users to access quality of care reporting metrics
- Designed testing requirements to ensure reliability of web-based reporting tool, as well as implemented testing by comparing reporting tool output to SQL queries of source data
- Performed gap analysis between client health systems membership data and web-based reporting tool's capability in order to determine level of effort of adding new features to the tool

### Student Tableau Developer

January 2018 – June 2018

*University of Wisconsin-Madison (Academic Planning and Institutional Research), Madison, WI*

- Designed dashboards on topics such as admissions, post-graduation plans and course drop rates to provide insight into how to improve student academic and career support (dashboards are public on university's tableau server)
- Implemented advanced tableau calculated fields to properly aggregate unit record data

### Summer Analyst

June 2017 – August 2017

*JP Morgan Chase & Co, Chicago, IL*

- Developed 40+ VBA Macros to automate email distribution of weekly reporting metrics, create project assignments for client advisors, filter user production errors and support various other reporting functionalities
- Bridged data between SharePoint, MS Access and Excel to streamline the creation of scorecards and management reports
- Presented automation solutions to leadership in the Asset Management group to improve reporting capabilities



## SKILLS

**Programming:** Python, R, VBA, SQL, SAS, HTML, CSS, JavaScript, Bash, CMD

**Software:** Excel (Advanced), Tableau, SPSS, SQL Server, AWS, Confluence, Jira, Azure DevOps, Qualtrics

**Other Experience:** API's, Source Control, Web Scraping, UML, Web App Development, Data Mining, Machine Learning



## ADDITIONAL

**Volunteer:** Asst. Coach of Evanston High School Boys Ultimate Frisbee Team, Statistics Without Borders, Chicago Scholars

**Interests:** Podcasts, Ultimate Frisbee, Ukulele, Hiking, Cooking, Sports Analytics, Building Personal Website