
EDUCATION

Syracuse University | Syracuse, NY

May 2021

M.S. in Applied Data Science (GPA: 4.0)

Coursework: Data Analytics (R & Python), Big Data Analytics (Spark), Scripting for Data Analysis (Python), Text Mining, Data Admin Concept & Db Mgmt (SQL Server), Advanced Big Data Mgmt (Hadoop & NoSQL), Quantitative Reasoning Business Analytics (Google Analytics & Power BI), Accounting Analytics (Tableau), Data Analysis & Decision Making (Excel), Business Operation Optimization

Stony Brook University | Stony Brook, NY

May 2019

B.S. in Physics & Math

Coursework: Advanced Linear Algebra, Multivariable Calculus & Differential Equations, Applied Algebra, Intro to MATLAB

SKILLS

- **Technical Skills:** R, Python, SQL, NoSQL, Hadoop Ecosystem, Tableau, Machine Learning Models, Text Mining, Spark, Git, MS Access/Excel/Visio, Docker, Linux Environment, Google Analytics, Power BI, MATLAB, C++
- **Languages:** Fluent in English, Native Chinese (Mandarin) Speaker

DATA SCIENCE EXPERIENCE/PROJECTS

Data Analyst Intern | Institutional Effectiveness & Assessment, Syracuse University, NY

Aug 2020 – Present

- Automated routine analyses and actions of student course feedback reports using Excel VBA and Macros
- Analyzed data for school leadership to evaluate course quality and instructor performance.
- Created Tableau dashboards to visualize campus-wide student survey data for transition to online under Covid-19 review.
- Applied text mining techniques to pull insights from comments data, provided strategic planning advice based on analysis.

Airline Customer Survey Analysis | Syracuse University, Syracuse, NY

Jan 2020 – May 2020

- Analyzed relationship between customer satisfaction and other attributes to find factors leading to promoters and detractors.
- Applied machine learning models (GLM, RF, GBM, ARules) and text mining with R, demonstrated results with Shiny App.
- Led group of 5, organized meetings and distributed workload reasonably to improve teamwork efficiency.
- Delivered actionable plans for client based on customer behavioral and geographical information drawn from survey.

Transaction Database System Design | Syracuse University, Syracuse, NY

Sept 2019 – Dec 2019

- Constructed database management system on SQL Server for a winter sports store's rental and retail transactions.
- Designed user interface with MS Access for editing data and performing built-in functions for answering business questions to help the manager with better decision making.
- Presented the system built and future roadmap to overcome limitations to audience with sample data.

ADDITIONAL EXPERIENCE

Student Program Assistant | Enrollment Management, Syracuse University, Syracuse, NY

Dec 2019 – Present

- Assisted prospective and admitted students with admission, curriculum, and student life via email, phone call, Q&A sessions and visits.
- Created and managed social media platforms for international iSchool students with 500+ subscribers.
- Collaborated with colleagues and school leadership to develop new pathways for applicants and enrolled students encountering difficulties due to Covid-19.
- Collected and analyzed data to investigate profitable target market worldwide for iSchool graduate programs.

Research Assistant | Stony Brook University, Stony Brook, NY

Sept 2018 – Jan 2019

- Structured 3D rectangular models for 5 million+ randomly distributed Cu and Zr atoms using C++ to simulate atomic configuration in nature.
- Upgraded reference code by introducing algorithm for geometry calculation of Voronoi Tessellation which reduced computational time by 10%.
- Wrote program for coordinating 3D structure parameters with visualization tool to generate short videos for demonstration.

Teaching Assistant | Stony Brook University, Stony Brook, NY

Sept 2018 – Dec 2018

- Organized weekly optional recitations for a MATLAB class, experienced an increase in student attendance from 10 to 20+ throughout the semester.
- Managed two graduate TAs on homework grading and reported to the professor to improve student learning outcomes.
- Coached students leading to 50% of tutored students achieving letter grade A at the end of the semester.
- Achieved all feedback 4+ (on a scale of 1-5) representing the recitation helpfulness, received proposal from students to implement recitation as a mandatory course.