

DARBY BLUM

darbyb.theatre@gmail.com

EDUCATION

Purdue University - Bachelor of Science in Data Science and Applied Statistics West Lafayette, IN
Minors: Theatre Design & Production, Sociology | *Certificate:* Theatre Lighting May 2024
GPA: 3.77/4.00 | *Study Abroad:* DIS Stockholm and Copenhagen (2022)

Relevant Coursework

Object-Oriented Programming, Machine Learning, Introduction to AI, Large Scale Data Analytics, Data Structures, Linear Algebra, Statistical Theory, Probability, Linear Regression Analysis, Time Series

Honors/Awards

Purdue CS Department 2021 Boeing Scholarship Recipient
Dean's List for All Semesters
Member of Mu Sigma Rho Honor Society (Statistics)
Vice President of Alpha Psi Omega Honor Society (Theatre)

SKILLS

Coding Languages: Python, R, Java, SQL | *Frameworks:* Hadoop, PySpark
Other Technology: AutoCAD, Vectorworks, Microsoft Office Suite, Google Suite
Languages: Intermediate American Sign Language, Beginning Swedish, Beginning Spanish

DATA ANALYTICS PROJECTS

Yards After Catch Allowed - NFL Big Data Bowl Mentorship Program 2024

- Selected as one of eighteen for an analytics mentorship through the National Football League's annual Big Data Bowl competition, receiving guidance from a NFL analytics expert.
- Worked with player tracking data from 136 games to make conclusions about tackling using the amount of yards a team's defensive backs allow the offense to gain after the catch on pass plays.

Weightlifting Performance - STAT 51200: Linear Regression Analysis 2023

- Collaborated with a team of five to analyze a powerlifting dataset using R.
- Conducted statistical analysis to assess whether the difference between a lifter's weight and the maximum weight of their weight class significantly affected the International Powerlifting Federation points they earned.

Bank Lending Prediction - CS 37300: Data Mining and Machine Learning 2022

- Examined borrowers' demographics and banking history to predict loan repayments using Python.
- Implemented principal component analysis to pre-process data, and utilized a multi-layer perceptron neural network to categorize it.

Delta Faucet - Purdue Data Mine: Corporate Partners Program 2021

- Analyzed customer behavior and satisfaction data webscraped using Python and BeautifulSoup.
- Presented project with a team of eleven for other company representatives at the 2021 Data Mine Symposium.
- Worked under Agile Project Management methodologies for increased team efficiency.

LEADERSHIP AND MANAGEMENT

Shakespeare Theatre of New Jersey - Stage Management Intern 2023

- Supervised backstage activities for mainstage performances as Assistant Stage Manager (ASM).
- Kept colleagues (30+) informed through daily schedules and detailed reports, oversaw production meetings, and directed ASMs as Production Stage Manager on the internship's final project.

Stories of Untold People's Past (SOUPP) - Founding Member and Secretary 2023

- Collaborated in starting a new club at Purdue University focused on making theatre more inclusive and providing a platform for communities and cultures often underrepresented on stage.