

# Sydney Lieske

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## EDUCATION

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### FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, FL

Bachelor of Science

Expected May 2023

Major in Data Science; Concentration in Intelligent Mobility

Relevant Coursework: Data Analysis, Statistical Learning, Machine Learning, Time Series, Analytics in Smart Cities

## WORK EXPERIENCE

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### FLORIDA POLYTECHNIC UNIVERSITY

Data Intern - Career Center

Feb 2023 – Present

- Utilize Handshake to analyze data and create customized dashboards, providing insights into student and employer behavior
- Conduct data entry to maintain accurate records of employer calls and student engagement supporting data-driven strategies for improving student outcomes and employer partnerships
- Evaluate employers and jobs for students, providing recommendations for job postings and opportunities that align with their skills and interests

## PROJECTS

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### Exploratory Data Analysis In R & Python

Fall 2022

- Conducted exploratory data analysis of a US traffic accident dataset with 2.8 million records, using R and Python to clean, analyze, and visualize the data
- Produced multivariate data visualizations and summary statistics to identify patterns and trends in the data, including the factors that contribute to the frequency and severity of accidents.
- Extracted meaningful insights, such as the most common times, locations, and weather, when they are most likely to occur

### Time Series Analysis In Stata

Spring 2022

- Utilized statistical forecasting techniques to accurately predict non-seasonally adjusted estimates of average weekly earnings and total employment for private employers in the Orlando-Kissimmee-Sanford area
- Conducted in-depth statistical analysis, utilizing summary statistics, time series line plots, and correlation and partial correlation analyses to uncover key trends and relationships
- Developed predictive models and leveraged techniques such as variable selection and rolling window forecast to achieve accuracy and precision

### Recipe Application In AWS

Spring 2021

- Collaborated as a group to build a web application which was deployed on AWS cloud web hosting with a properly configured network environment
- Developed a fully functional website that enabled users to post and save their favorite recipes
- Designed and implemented DynamoDB tables for efficient storage of user data, including email addresses and names

## SKILLS

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- Programming Languages: R, Python, SQL, Stata
- Technical Skills: AWS, Tableau, PowerBi, Microsoft Excel, Microsoft Project
- Soft Skills: Problem-Solving, Communication, Teamwork