

STACY LEE

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Education	University of Illinois at Urbana-Champaign M.S. in Statistics <i>Analytics Concentration, GPA: 3.62/4.00</i> B.S. in Civil and Environmental Engineering <i>Systems Concentration</i> <i>Minor in Mathematical Statistics</i>	Dec 2018 May 2017
Languages	Proficient: Python, R, SQL Python Libraries: Pandas, Sklearn, NumPy, Re, Matplotlib, Seaborn Tools AWS EC2, Azure, GCP, HiveQL, Tableau, Git, UNIX/Bash, ArcGIS	Familiar: HTML/CSS, C++, C, MATLAB, AWK, SAS R Libraries: Tidyverse
Experience	Ameren Data Science Innovation Intern <i>Analytics Team</i> ○ Led a 5-person team for the project in identifying individuals out of 1.4 million customers with the highest likelihood of enrolling in two different energy savings programs administered by Elevate Energy using Experian demographic dataset with mixed data types - Performed exploratory analysis, data cleaning, and feature engineering - Implemented random forest for 1% imbalanced class ratio improving recall by 90% - Presented insights on customer trends through storytelling to stakeholders - Mentored teammates on machine learning, statistics, and programming in Python or R ○ Assisted with development of model to classify adoption of solar energy for distribution ○ Brainstormed classification methods to replace the traditional utility pole assessment process with the goal of implementing a passive and cost-effective system - Wrote Python scripts to reformat data collected from sensors to facilitate analytics - Created different data visuals to find a clear classification threshold based on sparse data WSP Safety and Security Intern <i>Transit Rail Operations Team</i> ○ Created a simplified track signal diagram to convey complex data to government stakeholders ○ Collaborated on data visual of LIRR track outage schedule above I-678 with senior consultants RailTEC, University of Illinois at Urbana-Champaign Research Assistant <i>Train Safety Analytics Group</i>	Champaign, IL Jan 2018 - Dec 2018 Newark, NJ May 2017 - Jan 2018 Champaign, IL Jan 2016 - May 2017
Projects	Software Engineering Algorithm Implementation From Scratch ○ CS 412: Intro to Data Warehousing and Data Mining, <i>Fall 2017</i> - Random Forest Algorithm (Python); Frequent Itemset Mining Algorithm (Python)	
Involvement	Civil Engineering Undergraduate Advisory Board President ○ Established the first undergraduate advisory board in the civil engineering department ○ Organized social events of ~50 attendees to increase student and professor interactions	Champaign, IL 2016 - 2017
Awards	Data Science: Top 10 Team with Best MSE Score - Synchrony Financial Datathon 2018 Top 20% (Round 1); Top 50% (Round 2) - TEXATA 2017 Energy: Finalist Team - U.S. Dept. of Energy's Race-To-Zero Sustainable Design 2015 Entrepreneurial: Semi-Finalist Team - Cozad New Venture Competition 2014	