Jack Renning

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EDUCATION

B.S.E in Chemical Engineering with a focus in Data Science Expected Graduation 2024

University of Iowa – Iowa City GPA 3.94/4.00

SKILLS & CERTIFICATIONS

Software: Word, PowerPoint, Excel, Access, Aspen

Programming Languages/Tools: Python, R, VBA, MATLAB, Git, SQL

Certifications: Microsoft Office Specialist: Word, PowerPoint, Excel, Access, Google Data Analytics Certificate

Personal Skills: Communication, Organization, Team Management, Adaptability

INTERNSHIP EXPERIENCE

Renewable Generation Performance Engineering Intern May 2023 – August 2023

MidAmerican Energy Company, Des Moines, IA

- Built a dataset correlating real-time energy market prices with local environmental factors across various wind farms. Created meaningful visualizations to highlight statistical significance, aiding data-driven insights.
- Led the establishment of a centralized "Single Source of Truth" for wind operations, consolidating data from various departments and amassing over 17,000 critical data points.
- Cross-referenced daily reports and outage data to pinpoint recurring over 24-hour outages, categorizing trends by manufacturer, location, and wind turbine model for targeted improvement efforts.

Process Engineering Intern May 2022 – August 2022

Vishay Intertechnology, Columbus, NE

- Automated the creation of various reports using VBA macros saving over 30+ hours a month
- Constructed a graphical user interface (GUI) using Python to enable the generation of a report, increasing the visibility of the error data for each individual machine or group of machines
- Revised inspection parameters within quality control to categorize types of scrap more accurately, identifying future areas of process improvement

OTHER EXPERIENCE

Lead Engineering Tutor August 2022 – Present

University of Iowa, Iowa City, IA

- Assist over 15 students a night in reviewing key concepts in engineering courses including thermodynamics, principles of chemistry, and material science to prepare them for success in classes
- Provide tutors with resources and additional support when dealing with a difficult problem or student
- Create initiatives and help implement a culture of continuous improvement for the staff and tutees

Teaching Assistant August 2022 – Present

University of Iowa, Iowa City, IA

- Lead weekly group office hours to help students better understand the course material and complete their assignments
- Facilitate the grading of projects and homework assignments for over 40 students

EXTRACURRICULARS

- Member of the American Institute for Chemical Engineers
- Participant in the AIChE Chem-E-Car Competition
- Member of the UI Running Club