EMILY SUN

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EDUCATION

University of Michigan, Ann Arbor
Industrial and Operations Engineering Major and Mathematics Minor, Expected Graduation: Spring 2022
GPA: 3.68/4.00
Relevant Completed Courses: Optimization and Computational Methods, Quality Engineering Principles and Analysis, Data Processing, Programming and Introduction to Data Structures, Applied Regression Analysis
Awards: Dean's Honor List, University Honors, Regents Merit Scholarship
Activities: Michigan EcoData, Zeta Omega Eta, STEM Society, FEMMES

WORK EXPERIENCES

United Express TechOps Intern, United Airlines *Chicago, IL, 05/2021 - Present*

- Works closely with the United Express Aircraft Projects and Data Analytics teams to spearhead new project efforts and assist with multiple ongoing projects
- Assumed Project Manager responsibilities on a new In-Flight Entertainment initiative and designed a 12-week pilot program that drove a 15 point bump in customer sentiment of CRJ200's by leading working group meetings, performing in-person testings at hangars, ensuring stakeholder responsibility, and maintaining project charters
- Performs ad hoc data analysis in Palantir Foundry on flight paths, statuses, etc. by utilizing Python libraries and presents results and trends in clear, meaningful reports for Flying Partners and external stakeholders
- Automated an existing email process and reduced manual work by learning and executing Palantir's TESS functionality through debugging and problem solving

Michigan EcoData Executive Director & Project Team Leader, University of Michigan *09/2019 - Present*

- Manages the organization's university and department sponsorship and delegates tasks to executive board members that contribute to organization's progress to overarching mission statement and goals
- Takes all final decisions via colloborative problem solving and objective analysis to ensure the organization's longevity through recruitment of new members and improvement of organization structure
- Identified at-risk areas in Detroit for potential sites for urban farms by developing skills in ArcGIS software and leading a project team to collaborate and analyze open-source Geographical Information Systems data
- Utilized data scraping techniques, Python, and HTML to compile data and create an interactive heatmap of multiple contaminant concentrations in various sites across Michigan

Research Assistant, AER Lab, University of Michigan *10/2019 - 05/2020*

- Used machine learning algorithms in Matlab and Python and trained neural networks to detect activity patterns and automatically score EKG reading from mice up to 95% accuracy

Discrete Mathematics Course Grader, EECS Department, University of Michigan *09/2020 - Present*

- Applies knowledge and learning gained as a former student in the Discrete Mathematics course to provide feedback on assignments
- Works closely with the other Instructional Aides to meet deadlines and construct meaningful feedback to better facilitate individual learning

SKILLS

Programming Languages: Proficient with Python, R, SQL, Pyspark, C++, Matlab
Computer Skills: Microsoft Office Suite, Excel, Access, Google Suite, AutoCAD, LaTex
Technical Skills: Six Sigma trained, Project Management, Problem Solving, Leadership
Interests: Sustainability, National Parks, Sourdough Baking, Mental Health Advocacy, Astrology