EMILY SUN

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EDUCATION

University of Michigan, Ann Arbor • 2018-2022
B.S.E Industrial and Operations Engineering, Minor in Mathematics, *GPA:* 3.63/4.00
Relevant Completed Courses: Optimization and Computational Methods, Quality Engineering Principles and Analysis, Data Processing, Programming and Introduction to Data Structures, Applied Regression Analysis
Honors: Magna Cum Laude, Dean's Honor List, University Honors, Regents Merit Scholarship

WORK HISTORY

Analyst, UAX Strategy and Analytics, United Airlines *Chicago, IL • 09/2022 - Present*
- Developed a new scoring and reporting system based on flight attendant customer survey data that grants leadership more visibility on "above the wing" performance and compliance
- Manages and maintains UAX's internal website with Sitecore's digital experience platform through new and existing content management and new web designs via HTML and CSS

Intern, UAX Technical Operations, United Airlines *Chicago, IL • 05/2021 - 04/2022*
- Assumed Project Manager responsibilities on a new Inflight Entertainment initiative and designed a 12-week pilot program that drove a 15 point bump in customer sentiment of CRJ200's by performing in-person testings at hangars, ensuring stakeholder responsibility, and maintaining project charters

Research Assistant, AER Lab, University of Michigan *10/2019 - 05/2020*
- Used machine learning algorithms in Matlab to train neural networks to detect activity patterns in EKG readings and automatically scored epochs up to 95% accuracy

Discrete Mathematics Course Grader, EECS Department, University of Michigan *09/2020 - 04/2022*
- Worked closely with the other Instructional Aides to meet deadlines and construct meaningful feedback on assignments to better facilitate individual learning

EXPERIENCES

Executive Director, Michigan EcoData *09/2019 - 04/2022*
- Managed the organization's university and department sponsorship and delegated tasks to executive board members that contributed to organization's progress to overarching goals and mission statement
- Took all final decisions via collaborative problem solving to ensure the organization's longevity through recruitment of new members and improvement of organization structure

Project Team Leader, Michigan EcoData
- Identified at-risk food desert areas in Detroit for new urban farms potential sites in ArcGIS by analyzing open-source Geographical Information Systems data
- Created an interactive heatmap of multiple contaminant and pollutant concentrations in Michigan zipcodes with Python, Pandas, JSON, and HTML

SKILLS

Programming Languages: Python, Pyspark, C++, SQL, R, and Matlab
Technical Skills: Six Sigma trained, HTML, Git, Google Apps Scripts API
Interests: Sustainability, National Parks, Volunteering, Mental Health Advocacy, Astrology