Morgan Sandler

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EDUCATION

Michigan State University

East Lansing, MI || Jan 2022 - May 2023

Master of Science: Computer Science, Specialization in Machine Learning and Language Technologies

GPA 4.00/4.00 || Awarded a fully funded Graduate Research Assistantship

Publications: A Vocal Style Neural Network for Recognizing Speaker Emotion, **Morgan Sandler** and Arun Ross, (Targeting ICASSP 2023 Deadline in October 2022)

Michigan State University

East Lansing, MI | Aug 2018 - Dec 2021

Bachelor of Science: Computer Science, Specialization in Astrophysics Awarded the Christopher J. Jackson Endowed Scholarship of Computer Science

EXPERIENCE

Raytheon Technologies

Waltham, MA (Remote from East Lansing, MI) || May 2022 - Aug 2022

Data Scientist Intern

- Established a 185,000-node graph based upon employee-management hierarchy in Python, pandas, and NetworkX to model the spatial relations of employee behaviors and attitudes for visualization of company-wide (post-merger) user adoption of Office 365 (O365) and engineering tools.
- Built an employee-management subgraph generation tool in Python to enable data scientists to analyze employee relationships as part of their user research saving 365+ annual hours of prerequisite data wrangling work.
- Visualized user trends in **Pyvis and Seaborn** to present a story of technology adoption at Raytheon to raise project awareness and budget for O365 data exploration across different business units (Collins Aerospace and Raytheon Corporate).
- Analyzed employee digital dexterity through the employee-hierarchy graph + O365 data by user behavior classification with Principal Component Analysis and K-Means

Michigan State University

East Lansing, MI || Jan 2021 - Present

Graduate Research Assistant

- Designed and trained a speech emotion recognition model with 100+ hours of speech data to research the correlation between speaker vocal style and emotion labels with near *state-of-the-art* performance.
- Built a human computer interaction (HCI) demo in Python that predicts user affective state to play relevant music. https://github.com/morganlee123/SERPlaySpotify

Pratt & Whitney East Hartford, CT (Remote from East Lansing, MI) || May 2021 - Aug 2021

Digital Technologies Intern

- Built a data reporting/editing system with business-facing visualizations in SQL Server Reporting Services, ASP.NET, EF Core, and C# to provide 70+ senior managers supply-chain information for strategic decisions.
- Increased product engineering time by 2% annually by establishing a data pipeline in C# and SQL which automates the assignment of daily work.

LEADERSHIP/VOLUNTEER

SpartaHack Hackathon

East Lansing, MI || Jan 2021 - Present

Executive Co-Director

- Acquired \$54,000 of sponsorship funding from 8 companies for a 300-attendee hackathon.
- Directed a 4-person technology team which launched a React-based website: spartahack.com
- Built a data pipeline to compile all attendee application information obtained from an internal API linked to Google Firebase for a report to Major League Hacking.
- Generated attendee demographic visualizations and statistics for the closing ceremony presentation, and delivered bundled resume packages for event sponsors.