Andrew Gerstenslager

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Education

University of Cincinnati | 2019 – 2024

- Bachelor of Science - Computer Engineering (2019 – anticipated May 2024) | GPA: 3.69/4.0
  - Minor: Finance
- Master of Science – Computer Science (2022 - anticipated December 2024)

Work Experience

84.51° | 2022 – 2023 | Cincinnati, OH

- Data Science Co-Op (Summer 2023)
  - Trained team of 8 on TensorFlow LSTM autoencoder based anomaly detection
  - Architected the end-to-end package flow, ensuring streamlined integration
  - Optimized code to GPU runtime to reduce model training time/cost by over 80%
  - Led product owner meeting on package use case, aiding data analysis strategy
- Data Engineering Co-Op (Fall 2022)
  - Contributed to the internal Python tools used for household matching package
  - Rewrote internal API from Flask to FastAPI to follow company standards
  - Created client-facing features in Angular for starting data analysis processes
  - Updated Terraform architecture for package updates and architecture changes

L3Harris | 2020 – 2022 | Cincinnati, OH

- Computer Engineering Co-Op (4 semester-long rotations)
  - Devised machine learning system for manufacturing failure prediction using scikit-learn
  - Transferred code repository from SVN to Git for 20+ person team
  - Developed testing software using C# .NET and changed test development process to OOP

Leadership and Extracurriculars

UC Robotics Team | 2019 – 2023 | Cincinnati, OH

- President (2020-2023):
  - Restarted team and lab after Covid-19 pandemic lost many members
  - Partnered with UC Marketing to bring t-shirt cannon to football games
  - Rebuilt network on team's self-driving robot and companion base station
  - Modernized the team's codebase by migrating from ROS to ROS2

Technical Skills

Programming Skills:

- Python, C++, C#, SQL, PySpark
- Git, Docker, Jupyter Notebooks
- Linux, Ubuntu

Data Analysis Skills:

- U-Net Image Segmentation
- TensorFlow, Pandas, Numpy
- Cloud Computing (Databricks)

Research

Research-Based Senior Design & Master's Thesis | 2023-2024

- Project Focus: Place Cell Inspired Navigation and Localization for Robots

Searching for Summer 2024 internship/co-op