

Aninditha Nair

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EDUCATION

B.A. Computer Science and Data Analytics, Ohio Wesleyan University, Delaware, OH

May 2026

Minor(s) - Dance and Geography

Honors - Dean's List(22-24), Next Genius Full Tuition Scholar, Summer Bridge Scholar, Performing Arts Dance Scholar, Florence Leas Prize for Excellence in MATH and CS

Relevant Coursework - Theory of Computation, Discrete Math, Data Mining and Machine Learning, Social, Ethical, and Cultural Impacts of Big Data, Geospatial Analysis with Python

Campus Leadership - Residential Assistant, Founder - *OWU Computer Science Club*, Co-President - *Women in Science*, Co-President Internal - *Campus Programming Board*, Member - *Math and CS Departmental Board*

TECHNICAL SKILLS AND INTERESTS

Programming Languages

- SQL, Python(Pandas, NumPy, ArcPy, Matplotlib, Seaborn)
- R (dplyr, ggplot2, tidyverse), RMarkdown
- Java, C++, Scheme, SwiftUI.

Tools & Frameworks:

- Tableau, Power BI
- TensorFlow, Keras, Scikit-learn
- Trello, Notion, Docker, Github, ArcGIS Pro, Microsoft SQL Server.

TECHNICAL PROJECTS AND HACKATHONS

Stock Market Prediction using LSTM Neural Networks

- Co-led and built an LSTM-based Stock Market Predictor implemented from scratch in Python, analyzing 2010–2024 data to forecast trends with high accuracy, while overseeing project timelines, delegating tasks, and ensuring successful implementation of the model.

Energy Consumption Prediction in the United States

- Engineered an XGBoost-based machine learning model, reducing prediction errors for energy consumption by 40% across various regions.

Data Visualization: Non-Renewable Energy and its Impact on the Climate

- Designed a dashboard that showcased five compelling data visualizations made in Tableau about the use of fossil fuel and non-renewable energy sources around the world since the 2000s. View [Trifold](#) format.

RELEVANT EXPERIENCE

TECH CORPS, Columbus, Ohio

May 2024 - August 2024

Instructor

- Led a Google-sponsored initiative for 25 high school students, improving their proficiency in Block programming, Cybersecurity, and Data Analytics in Excel concepts by 40% while tailoring lessons to accommodate varying levels of technical literacy.
- Conducted workshops for 21 middle school girls, boosting Web and App Development skills and increasing tech career interest by 30%.

Auditor of the State - OH, Columbus, Ohio

July 2023 - December 2023

Data and Information Technology Audit Intern

- Optimized SQL, Python, and R(*tidyverse*) scripts for data cleaning, validation, and risk assessment, ensuring accuracy, and integrity of tax datasets for over 5,900 public entities across 88 Ohio counties.
- Partnered with the Audit team to refine workflows and improve the efficiency of data validation processes.
- Developed five Power BI visualizations to communicate insights to non-technical stakeholders and state officials.

Oak Ridge National Laboratory, Oak Ridge, Tennessee

May 2023 - July 2023

Computational Research Intern

- Partnered with Dr. Melissa Allen-Dumas to assess coastal aquifer vulnerability, identifying three critical risk factors using statistical analysis with *tidyverse* in R.
- Collaborated with 10 stakeholders, incorporating their feedback to refine climate resilience strategies and deliver impactful geospatial visualizations using ArcGIS, R(*ggplot2*), and Python(*matplotlib*).
- Processed NetCDF data using HPC infrastructure, delivering actionable insights on projected sea level rise impacts.