

Tony Griffin

Data Scientist

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SKILLS

Programming Languages: Python, SQL, Java, Bash, C++

Libraries: Pandas, NumPy, PyTorch, Tensorflow, Matplotlib, Seaborn, Plotly

Tools: Docker, MySQL, Jupyter, Linux, PostgreSQL, AWS RDS, Git, GitHub, UV

EDUCATION

Old Dominion University

Norfolk, VA

Master's Degree in Data Science with focus in Artificial Intelligence , GPA: 4.00

Old Dominion University

Norfolk, VA

Bachelor's Degree in Computer Science with Minor in Cybersecurity, GPA: 3.8

Tidewater Community College

Chesapeake VA

Associate's Degree in Computer Science . GPA: 3.8

WORK EXPERIENCE

Graduate Research Assistant | Old Dominion University

Spring 2026 - Present

- Harnessed PyTorch to develop a Physics-Informed Neural Network to predict beam field values given simulation parameters
 - Integrated the trained network into Matlab to solve differential equations using symbolic integration

Data Science Intern | Hampton Roads Biomedical Research Consortium

Summer 2025 - Fall 2025

- Leveraged TensorFlow and deep quantile regression to predict local flooding probability using gathered forecast and current weather data from Virginia Beach
 - Developed an extendable and configurable ETL processing pipeline for Open-Meteo weather forecast data using Pandas and Requests
 - Utilized Docker Compose to orchestrate multiple data streams and data volumes, including MySQL, for use by the Data Science team in modeling and reporting

PROJECTS

MLens | *PySpark, MLlib, Python, Plotly, Jupyter*

- Developed a machine learning pipeline to make movie recommendations using the MovieLens dataset
 - Leveraged collaborative filtering using alternating least squares
 - Cross validated the model in regards to ALS rank and regularization parameter with three folds

Community Curator | *React, Django, PostgreSQL, JavaScript, Python, AWS RDS, MaterialUI*

- Collaborated in a team of six developers to develop a full-stack web application to aid hobbyists and hobby groups reach each other
 - Developed and deployed REST APIs using Django
 - Engaged with the front-end team to integrate back-end changes to React components
 - Led the development of a user wiki for interacting and using the application
 - Collaborated in the creation and presentation of PowerPoint material to stakeholders

Website Analyzer | Java, Gradle

- Worked with a team of five developers to develop a CLI tool to analyze local website files
 - Utilized agile development standards to track workflow
 - Mandated quality standards through the use of unit testing and static code analyzers