

Tony Griffin

Data Scientist

(757)-667-0669 | TonyGriffin2000@gmail.com | [LinkedIn](#) | [GitHub](#) | [Personal Site](#)

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: 4.0 Spring 2025 - Present

Old Dominion University Norfolk, VA
Bachelor's Degree in Computer Science with Minor in Cybersecurity, GPA: 3.8 Fall 2021 - Spring 2024

Tidewater Community College Chesapeake, VA
Associate's Degree in Computer Science, GPA: 3.8 Fall 2019 - Summer 2021

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