

Victor Solomon

CONTACT INFORMATION	Atlanta, GA, USA <i>Email:</i> vsolomon3@student.gsu.edu <i>WWW:</i> sites.google.com/view/dmlab/team/victor-solomon
RESEARCH INTERESTS	I am broadly interested in machine learning and scientific AI. My current focus is on building robust learning systems for heliophysics, with applications in solar event prediction and streaming data pipelines at DMLab.
EDUCATION	Georgia State University , Atlanta, GA, USA Ph.D., Computer Science, Aug. 2023 – Aug. 2028 (Expected) <i>Advisor: Prof. Rafal Angryk</i> African University of Science and Technology , Abuja, Nigeria M.Sc., Computer Science, Sep. 2019 – Feb. 2021 Kaduna State University , Kaduna, Nigeria B.Sc., Computer Science, Jan. 2014 – Feb. 2018
PUBLICATIONS	Victor Solomon , Rafal Angryk, Omkar Rayala, Manya Rampuria, Abdul Afrid, and Junzhi Wen. <i>Time Series Decomposition Using Wavelet and Fourier Transforms for Enhanced Solar Flare Forecasting</i> . In <i>Proceedings of the 38th International FLAIRS Conference (FLAIRS)</i> , 2025.
EXPERIENCE	Graduate Research Assistant <i>Georgia State University – DMLab</i> <i>Aug. 2023 – Present</i> <ul style="list-style-type: none">– Contributed to the SEP Prediction Pipeline using Apache Kafka for real-time space weather event forecasting. <i>Project URL:</i> https://dmlab.cs.gsu.edu/sep-prediction/– Developed a wavelet and Fourier-based time series decomposition framework for enhanced solar flare forecasting. <i>Project URL:</i> github.com/dasjar/Time-Series-Decomposition Data Analyst <i>United Bank for Africa</i> <i>May 2022 – Jul. 2023</i> <ul style="list-style-type: none">– Built data pipelines for risk modeling and performance tracking using Python SQL and dashboarding tools to support strategic decision-making in financial operations QA Engineer <i>Field Technologies and Development Partners</i> <i>Feb. 2021 – Aug. 2021</i> <ul style="list-style-type: none">– Designed and implemented automated test scripts using Python and Selenium; developed test cases for REST API validation and UI workflows. Teaching Assistant <i>Plateau State University</i> <i>Apr. 2018 – Apr. 2019</i> <ul style="list-style-type: none">– Supported instruction and grading for the undergraduate course “Introduction to Algorithms and Data Structures.”

PROFESSIONAL
ACTIVITIES

Presenter: 38th International FLAIRS Conference, 2025

HONORS AND
AWARDS

- Martin D. Fraser Travel Award, 2025
- AUST Merit Scholarship (Master's Program), 2019
- World Bank Pan-African Undergraduate Scholarship, 2017

SKILLS

Programming: Python, C/C++, R, Java, SQL

Tools & Frameworks: PyTorch, Tensor-Flow, Apache Kafka, REST APIs, LaTeX

OS: Linux, Windows