Arvin Rae T. Gavan

BS Meteorology Graduate

I am greatly passionate about learning, weather, sharing my knowledge, enhancing my skills, and connecting with experts in the field. I always look for ways to learn new skills and tools useful for meteorology. I am highly confident of my capabilities, and I am excited to inspire and to nurture future industry leaders in meteorology and climatology.

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Shalom!

This is to signify my interest to apply for the available position of Instructor I as posted in https://jobs.vsu.edu.ph/. I am confident that my theoretical and practical knowledge and experiences that I have gained through my years of studying and conducting research in the field of meteorology has equipped me with the necessary know-how and skills that is well suited for the position that I am vying for.

Through my journey as an undergraduate student, under the supervision and guidance of the highly competitive faculty of the Department of Meteorology of Visayas State University, I was able to learn the fundamental principles of weather and climate as well as engage in several research works including Upper-air, Wind, and Precipitation Data Comparison between STS “Ineng” (Bailu) and STS “Maring” (Kompasu) in Laoag, Ilocos Norte, in my second year; Comparison of WRF-ARW Cumulus Parameterization Scheme in Simulating Precipitation of Tropical Storm “Paeng” (Nalgae) 2022, in my third year; Verification of Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) Storm Surge Warning and Inundation Module (SWIM) during Typhoon Ompong (2018), on my On-the-Job training in DOST-PAGASA Research Development and Training Division; and Evaluation of Gálvez-Davison index in the Philippines during the Southwest Monsoon (“Habagat”) Season of 2023 as my undergraduate thesis.

I have gained relevant skills in gathering, processing, visualizing, analyzing and presenting surface observations, radiosonde, Numerical Weather Prediction (NWP), and Satellite data. For data gathering I have a background in accessing and navigating institutional websites for meteorological and climatological data from National Center for Environmetal Information (NCEI) for Global Summary of the Day (GSOD), Global Forecasting System Forecasts and Reanalysis (GFS-ANL and GFS-FNL), University Corporation for Atmospheric Research Data Archive (UCAR-RDA), European Center for Medium-Range Weather Forecast Reanalysis and Forecast (ERA5 and EMWF-IFS), JRA, National Computation Institute (NCI) of Australia, Thematic Real-Time Environmental Distributed Data Services (THREDDS), University of Wyoming upper Air Data, and many more. I have conducted data processing for my several research experiences, notably in my Numerical Weather Prediction (NWP) where I had to process the NWP input, during my OJT in PAGASA where I had to deal with a lot of data-cleaning for storm surge data as well as in my undergraduate thesis where I preprocessed and processed thousands of Numerical Weather Prediction, Upper-air, and satellite data.

I have been able to visualize data using numerous software which further expanded my skillset: NASA Panoply for NetCDF file inspection and basic visualization; Unidata Integrated Data Viewer for visually sandwiching multiple NetCDF variable; UCAR Vapor for 3D visualization of NetCDF file; QGIS for mapping and geospatial analysis; and Python programming using libraries such as Matplotlib, Plotly, Seaborn, Pandas, and Xarray. My previous research works further developed my analysis and science communication skills. I have exercised these skills throughout my different course works and during my OJT in our presentation of our research progress reports, proposals, and defense. I was given the task of presenting storm surge literature and case study to the expert storm surge researchers of PAGASA RDTD; analysis and drawing of synopsis using satellite data within the satellite section of PAGASA; analysis and presentation of PAGASA model guidance during map discussions with the seasoned forecasters of the PAGASA Weather Forecasting Section; and presenting Weather Briefing in the PAGASA studio.

Apart from the research and forecasting skills I also have technical and clerical skills from volunteering in the PAGASA Complex Station in Guiuan Eastern, Samar where I worked with weather observations, setting-up radiosonde and weather balloons, and organizing climatological records of upper-air observations. I have experienced working in the registrar office of the National Maritime Polytechnic in Tacloban City where I handled enrollments, documents, certifications, and interoffice liaison.

I am a highly motivated individual filled with creativity for cracking problems and developing solutions using different available means at my disposal. My several research experiences have shaped me as learner that goes above and beyond in gaining information and communicating them effectively. I am fueled by both my grit and perseverance to learn, which I highly believe is an indispensable trait of an instructor which I can impart and contribute to the department.

Attached herewith are my resumé, personal data sheet, and certificates of my trainings attended. Should you have any queries regarding this application please do not hesitate to contact me through the following contact details:

- Email Address: arvingavan@gmail.com
- Facebook: Link
- Contact Number: +63-968-260-1229

I am very much available for an interview at your most convenient time, and I am looking forward to being a part of your dynamic faculty. Thank you and more power!

Sincerely yours,

ARVIN RAE TINGZON GAVAN