

MICHAEL LEVINE

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Education

Bachelor of Science in Meteorology – General Option

THE PENNSYLVANIA STATE UNIVERSITY *University Park, PA*

Specialized Training

- SKYWARN Spotter Advanced Severe Weather Training
- Basic CPR Training with PSUChase
- Raytheon/AWIPS Basic Engineering Course (BEC)
- SAB Tropical, Precipitation, Volcano and Fire Desk Certification
- AWS Certified Solutions Architect Associate (In Progress)

Key Skills

- Years of experience of programming in Python, Bash, HTML/CSS, Javascript, PHP, C++, and Matlab
- Years of forecasting experience in and out of the classroom
- Experience working with and developing interpersonal relationships with the public

Work Experience

PostgreSQL Database Engineer at Ace Info Solutions/Guidehouse (NOAA-MDL Contract) *September 2021 – present*

- Built on my previous experience with Ace Info by providing back-end and front-end software development support for MDL's NDFD-Stats Viewer.
- Gained better efficiency with web development programming languages, such as HTML/CSS, Javascript/JQuery, PHP (for back-end database access), and PostgreSQL.
- Utilized scripting languages, such as Python and BASH to develop and improve scripts to support and troubleshoot verification data ingestion processes.

Scientific Programmer II at EMCS/ERT (NOAA OSPO-SMOMS Contract) *June 2020 – September 2021*

- Supported the Satellite Analysis Branch (SAB)'s mission by providing new proof of concept satellite analysis techniques needed to support disaster mitigation and warning services for U.S. Federal agencies and the international community.
- Gained experience analyzing satellite and ancillary data to create interpretive satellite-based products, as well as utilizing applications of remote satellite sensing in meteorology, oceanography, and other physical sciences.
- Broke new ground by being the first SAB employee to complete all their certifications and training completely remote.
- Continued to evolve my programming skills by managing and developing several scripts/programs for SAB's Tropical Branch.

Jr. Meteorologist/Linux Administrator at RCG Inc./GAMA-1 Technologies (NOAA AWIPS Contract) *March 2018 – June 2020*

- Improved customer service and communication skills, working with clients to solve their AWIPS-related issues, working in a 24x7 support environment.
- Displayed continued interest and improved skills with software development by developing multiple scripts/applets (written in Python/Bash) to aid in streamlining daily workflow. These were developed by scratch, purely by choice.
- Exhibited strong adaptability, tackling many different issues on the spot, as they arose for clients.
- Developed a strong background in the AWIPS infrastructure and how to solve many of the issues that its clients face.
- Managed data flow and critical processes at around 150 National Weather Service (NWS) offices, each hosting around 15 servers.
- Closed over 5000 *BMC Remedy* trouble tickets, tackling issues related to file systems, file permissions, data flow, user profile, environment, script syntax, and many other AWIPS/Red Hat Linux-related issues.

Scientific Programmer Intern at Ace Info Solutions *May 2017 – August 2017*

- Gained efficiency in SQL by creating and populating a table in one of MDL's (Meteorological Development Laboratory) PostgreSQL databases.

- Taught myself shell (bash) scripting to write a script that calculates MAE (Mean Absolute Error) and Brier scores for NDFD (National Digital Forecast Database) and MOS for multiple weather variables, automatically twice a year (after each cold and warm season). This script then populates an SQL table.
- Gained familiarity with PHP, HTML/CSS, and JavaScript by developing an online GUI for NWS forecasters to access and plot data from the SQL table.

Volunteer Work

Friends of the Wissahickon || Long-term preservation and appreciation for the Wissahickon Valley ||
Philadelphia, PA 2009 – 2013

- Developed a strong work ethic by building and maintaining trails, clearing trash and pollution, and general park management