Reginald E. Johnson, B.S.

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Summary of Qualifications

An atmospheric scientist with a strong background in math, seeking employment in the areas of web development, storm management, or forecasting.

Education

Cornell University, *Ithaca, NY*, 19-August-2011 to 24-May-2015
Bachelor of Science, Major: Atmospheric Science, School: College of Agricultural and Live Sciences
American Meteorological Society member, American Association of Blacks in Energy scholarship winner

Computer Skills

- Experience in Java, Python, Matlab, Excel, Fortran, Javascript, GIS, HTML, XHTML, XML

Professional Experience

Meteorological Consultant, *PJM Interconnection*, June 2015-present, Audubon, PA

- Communicated weather forecasts to 24/7 shift supervisors and alerted them of high impact weather events
- Created weather database of snowfall to use for winter load forecasting
- Using Python, developed improved weather model for PJM with 7 day temperature change
- Accounted for RTO load's lowering due to solar power
- Used meteorological data to construct load forecasts (most accurate load forecaster at PJM)
- Provided load forecasts to 24/7 master coordinators and evaluated past load forecasts for accuracy
- Used Excel and Python to identify load telemetry errors
- Used XHTML and XML to create a JSF project, which was used as the template for a new load forecasting tool

Broadcast Demo, *NBC 10 Philadelphia*, February 2015, Bala Cynwyd, PA

- Recorded sample weather forecast using professional graphics (https://www.youtube.com/watch?v=cgkfFrpIbuc)

Application Developer, *The Ultimate Apps Official*, October 2014-present, Philadelphia, PA

- Developed 9 apps each for desktop, Android, and Apple devices
- Created the first radar archive with snow, ice pellets, freezing rain, rain, and hail
- Google Play applications have 78 total downloads
- Chrome Web Store products have 12,509 weekly users

Weather Forecaster, *WPEB 88.1 FM Philadelphia*, June-August 2012, Philadelphia, PA

- Provided on-air weather forecast for radio station
- Heard in Philadelphia metro area

Undergraduate Research Assistant, *Cornell University*, May 2013-May 2015, Ithaca, NY

- Ran WRF model runs of Hurricane Sandy without latent heating
- Used Reanalysis data to compare geopotential height fields with other storms
- Presented PowerPoint on work at the 2014 Northeastern Storms Conference

Web Developer, *University of Maryland*, May-July 2014, College Park, MD

- Investigated the concept of return periods of rainfall amounts
- Correlated return periods with rainfall duration
- Constructed website on current and historical rainfall return periods (http://www.geocities.ws/radar/home.html)

Chaperone, *NOAA Centers for Atmospheric Science Weather Camp*, July 2012, July 2013, Washington, DC

- Facilitated group activities with high students attending camp
- Assisted Camp Director/Meteorologist with atmospheric science demonstrations
- Assisted students with weather based presentations