



## Developer & Meteorologist

📍 Remote | Independent contractor: Up to 20 hours/week

At Monarch Weather & Climate Intelligence, we harness the power of weather data to help industries anticipate risk, protect assets, and stay ahead of our changing climate. We're looking for a highly motivated meteorologist with strong technical skills to join our remote team. If you love analyzing storms, spotting long-term climate patterns, and building tools that translate weather into action - this role is for you! Job duties are outlined below and will be required on an as-needed basis.

### Development Duties (Primary):

- Study and grow familiar with the underlying code for Monarch's existing web platforms
- Monitor in-house data layers and ensure each layer updates regularly
- Maintain Monarch's server and prevent storage shortages from impacting website and data processing performance
- Provide quick fixes during data outages and troubleshoot unexpected bugs in both the data processing pipeline and website functionality
- Support the development of proprietary risk layers
- Contribute to the development of AI tools for improving and personalizing forecasts

### Operational Duties (Secondary):

- Forecast meteorological risks for client assets using numerical weather models
- Communicate meteorological risk in layman's terms to clients using Teams and email
- Investigate past weather events to support forensic court cases and insurance claims
- Write scientific reports to summarize findings of forensic studies
- Prepare seasonal forecast reports to keep clients apprised of long-term trends
- Brainstorm and develop new methods and tools for forecast dissemination
- Join occasional meetings with current and prospective Monarch clients

### Mandatory Qualifications:

- Bachelor's Degree in Meteorology, Atmospheric Science, or similar
- Operational forecasting experience
- Demonstrated proficiency in scientific writing
- Proven attention to detail for situational awareness purposes
- Proficiency in Python, with some experience in JavaScript, HTML, and CSS
- Experience processing weather model data from sources including NOMADS, AWS, and Copernicus
- Understanding of multi-dimensional datasets with the ability to quickly parse out pertinent information
- Ability to understand extensive code bases across multiple files

### Desired Qualifications:

- Previous experience with case studies and archived weather events
- Passion for asking questions about storms, and why they happened
- Experience forecasting using ENSO, NAO, PDO
- Experience with open-source web mapping libraries (Maplibre), deep learning libraries (Tensorflow/PyTorch), and data visualization libraries (Matplotlib, CartoPy)
- Comfortable with SQL databases and queries
- Ability to develop and maintain API endpoints using FastAPI for data delivery



**MONARCH**  
WEATHER + CLIMATE INTELLIGENCE

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### Interested?

If you're passionate about weather, climate, technology, and building tools that help organizations make better decisions, we'd love to hear from you.

Please send a resume and brief note describing your background and interests to:

**Crystal Egger**

**Monarch Co-Founder & Meteorologist**

✉️ [Crystal@monarchweather.com](mailto:Crystal@monarchweather.com)