

Djordje Ivosevic

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SUMMARY

Operational Meteorologist with a specialized background in atmospheric dynamics, flight planning, and mission-critical logistics. Proven ability to analyze complex wind fields and making high-pressure decisions in safety-critical environments. Experience at SeaStreak demonstrates the situational awareness and judgment required for operational control. Skilled in Python automation and data analysis to support flight trajectory modeling. Eager to apply meteorological expertise and operational discipline to master balloon navigation at WindBorne Systems.

SKILLS

Meteorology: Atmospheric Dynamics (Wind Fields/Jet Streams), Stratospheric Physics, Trajectory Forecasting, Weather Risk Assessment. • Operations: High-Pressure Decision Making, Flight Control Concepts, Real-Time Situational Awareness, Shift Work Adaptability. • Technical Tools: Python (Data Analysis/Automation), Flight Tracking Systems, GIS (Spatial Analysis), Microsoft Office. • Communication: Technical Briefings, Operational Reporting, Cross-Functional Collaboration.

WORK EXPERIENCE

Virginia Tech

Blacksburg, VA

Undergraduate Meteorological Researcher

Aug 2024 - May 2025

- Analyzed 30 years of atmospheric data to characterize wind patterns and environmental anomalies, developing a deep intuition for upper-air dynamics.
- Engineered Python scripts to automate the ingestion and visualization of meteorological data, reducing analysis time by 20% and improving forecast accuracy.
- Modeled the impact of atmospheric variables on physical systems, simulating the trajectory analysis required for flight planning.
- Documented technical methodologies and operational learnings to support continuous improvement of research workflows.

SeaStreak Inc

Sandy Hook, NJ

Maritime Operations Associate

May 2024 - Aug 2024

- Executed operational decisions in a safety-critical maritime environment, assessing real-time weather conditions to determine "Go/No-Go" status for vessel deployment.
- Managed logistics under high uncertainty, prioritizing tasks to ensure mission success during rapidly changing environmental conditions.
- Demonstrated resilience and focus while working unusual hours (early mornings/late nights), maintaining high performance during long shifts.
- Communicated complex operational updates to diverse stakeholders, ensuring alignment between crew, management, and passengers.

Lowes Inc

Middletown, NJ

Overnight Stocker

May 2023 - Aug 2023

- Maintained inventory organization and executed daily logistics to ensure optimal product availability and operational efficiency.

EDUCATION

Virginia Tech

Blacksburg, VA

B.S., Meteorology

ACADEMIC PROJECTS

Automated Environmental Data Pipeline

- Built a Python-based system to ingest real-time and past weather telemetry and forecast environmental conditions along specific paths.
- Implemented logic to flag hazardous weather zones, supporting decision-making for safe routing.

Topographic Mapping & Feature Extraction | Augusta, GA

- Processed raw elevation data to generate high-resolution 3D visualizations and contour maps of local terrain.
- Applied Spatial Analyst tools to perform digital feature extraction and slope analysis; managed coordinate system projections to ensure data integrity.
- Created professional-grade cartographic products adhering to strict quality control standards.

Flood Risk Inundation Modeling | Upper Cape Fear Region, NC

- Created a comprehensive flood risk model to identify critical infrastructure vulnerabilities within the watershed.
- Utilized ArcGIS Pro to process Digital Elevation Models (DEMs), delineate stream networks, and simulate hydrological flow accumulation.
- Produced high-accuracy risk assessment maps used to visualize environmental impact scenarios.