

Joseph Pittenger

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EDUCATION

University of Oklahoma – B.S., Atmospheric Science | Meteorology

Norman, OK | Expected 2030

- Relevant coursework: Intro to Atmospheric Sciences, Calculus II, General Physics
- Coursework includes complex math, physics, and the basics of atmospheric sciences

North Branch High School – Summa Cum Laude

North Branch, MI | Class of 2026

- Took 12 AP courses across high school, scoring four 5's, six 4's, and one 3.
- Coursework included AP Calculus, AP Chemistry, and AP Biology.

METEOROLOGY & TECHNICAL PROJECTS

PittWeatherRadar – Creator & Developer

Ongoing Project | Python

- Developing a Flask and Leaflet web application for viewing NEXRAD Level II radar data
- Learning tool for different python libraries such as pyrat and interpreting NEXRAD data

jpitt.net – Weather & Science Communication Site

Personal Project | HTML/CSS, JS

- Built and maintain a personal site featuring a live radar display and an interactive timeline
- Rebuilt an SPC convective outlook fetcher by scraping source HTML from the SPC
- Learning basic HTML/CSS to create comprehensive and easy to view websites

@joep_wx – Weather Social Media & Science Communication

Ongoing

- Produce weather forecasts and severe-weather coverage for a public audience
- Active storm environment analysis and aurora analysis with field observation experience

Club Leadership & Learning Opportunities

FRC Team 8767 (High School) – Lead Programmer and Team Captain

Volunteer | Java

- Sole programmer for the team (5 years), concepts including swerve drive, vision alignment, and flywheel control systems
- Implemented AprilTag-based vision alignment and odometry corrections using Pathplanning and Vision solutions
- Authored and deployed team technical documentation via MkDocs on GitHub Pages
- Built pre-event scouting tools that aggregate large data sets for team drafting.

Club Member – Community Involvement

Involvement | Opportunity

- Member of Collegiate Model United Nations Club (High school membership for 4 years)
- Member of Collegiate OWL Forecasting Club
- Member of Collegiate SURA Research Club
- Member of Collegiate Bowling Club

WORK EXPERIENCE

Crew Member – McDonald's (Food Service)

1 year

- Worked in a fast-paced, customer-facing team environment while balancing school commitments

SKILLS

Programming: Java, Python, HTML/CSS, JavaScript

Tools & Data: Flask, GitHub, pyart, nexradaws, PathPlanner, PhotonVision

Meteorology: NEXRAD radar analysis, boots-on-the-ground storm analysis, aurora forecasting, convective outlook interpretation