

ANDREW J. PALADINO

GIS DEVELOPER, SOLUTIONS ENGINEER, DRONE DATA SME, AUTOCAD
SME, MASTERS CANDIDATE | CLEARANCE LEVEL: TS/SCI

PROFILE

Address
405 Clifford Avenue,
Alexandria, VA, 22305

Email
andyjpaladino@gmail.com

Phone
(304)-376-9192

LinkedIn Profile
<https://www.linkedin.com/in/andrewpaladino1/>

Professional Portfolio
andrewjpaladino.com

Twitter/Instagram
@tipsypilot

Github
[aj.paladi](https://github.com/ajpaladi)

CAREER OBJECTIVE

I am a Solutions Engineer, Data Scientist, and GIS Developer seeking a full-time position in the field of geospatial analysis, data analytics, UAV mapping/operation, product development, and/or software development.

I aim to apply my technical knowledge and skill sets relating to the field of geospatial to gather, analyze, and visualize spatial patterns and relationships.

Overall, I seek the opportunity to apply my diverse skill set to a creative, hard working, and dynamic professional setting.

AWARDS

Boys Scout of America- Eagle Scout

Instagram -Featured Aerial Photographer

Syracuse Maxwell Perspective,
Alumni Spotlight Fall 2022

Syracuse University- 2015 D1 NCAA Cross Country Champions, 3x ACC Academic

Honor Roll, 2016 - 2018 SU Dean's List

EDUCATION & CERTIFICATIONS

M.S. in Data Analytics (Candidate)- Computer Science Track, 2026
George Washington University, School of Engineering and Applied Science

B.A. in Geography - Geographic Information Systems, 2018
Syracuse University, Maxwell School of Citizenship and Public Affairs

Minor in Public Communications, 2018
Syracuse University, Newhouse School of Public Communications

Federal Aviation Administration - Part 107 SUAS Remote Pilot

EXPERIENCE AND RESEARCH

Jan 2024-Present

Sierra Nevada Corporation - Solutions Engineer III - provided technical and analytical support, solutioning, on-boarding, and success for several dozen commercial and federal clientele & prospects. Pioneered the development of several internal python API wrappers that contain normalization, analytical, and visualization functions and methods for customer facing products. One wrapper is being utilized by multiple internal stakeholders for simple, intuitive and quick API interaction. Led the technical development and deployment of an ETL based dash-boarding solution for federal stakeholders, incorporating insights from self deployed LLMs using Ollama, HuggingFace, and RAG via ChromaDB. Facilitated QA efforts prior to and following product releases, bugs, and updates.

March 2023 - January 2024

Zeitview (Formerly DroneBase) - Platform Product Manager - Led Zeitview's Platform Team of developers, designers, and QA members in the scoping, development, and deployment of products, features, and enhancements associated with Zeitview's enterprise platform, Admin. Maintained cross-functional collaboration with operations and finance to understand the needs that influenced prioritization on the product roadmap. Worked with vertical product managers to ensure that platform was successfully supporting each branch application (solar, wind, properties, etc.) Developed a python application to deliver sprint metrics on for each product-managed vertical every 2 weeks.

June 2022 - March 2023

Orbital Insight Inc - Solutions Engineer | Technical Customer Success Manager - Managed the success of over two dozen accounts, many of which were included on the Fortune 50 list. Provided services ranging from account management to solutions engineering, often developing off platform capabilities via python, pyspark, Amazon EMR, and notebooks. Gained considerable expertise in developing functions and algorithms on geolocation datasets ranging from cell, connected car, connected plan, ship, and satellite imagery to drive and support the customer business case.

November 2021 - June 2022

Mapware Inc. - Manager, Customer Success & GIS Support Engineer - helped Mapware establish a Customer Success Department, implementing CRM/Case Management best practices (via Salesforce Lightning Service), created and deployed a public-facing knowledge base and digital experience for both commercial and federal customers, and utilized GIS and photogrammetric tools + best practices to troubleshoot customer datasets. I managed all GIS workflows pertaining to the Air Force Stratifi Project, specifically for ML and AL model building for habitat and species detection. Spearheaded data collection efforts in the field with LiDAR/MS equipped multirotor and fixed-wing UAS.

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EXPERIENCE CONT'D

July 2019 - November 2021

Woolpert, Inc. (US Air Force) - Geospatial Specialist II | sUAS Data Processing & Analysis SME - Led the geospatial implementation, automation, product creation and delivery efforts for the 316th CES and GeoBase Office @ Joint Base Andrews. As the sole data steward for the JBA ArcSDE, I was tasked to manage airmen, assign roles, maintain records, modernized workflows, and develop new products/capabilities that were utilized by JBA in effort to track all assets maintained by the Squadron. I was appointed by AFCEC to help acquire funding for, develop, and establish both an sUAS Office and a Drone-As-A-Service (DaaS) Provider, at large, to support advanced sUAS surveying capabilities at any installation in the world. My role within the office is specifically to develop post-flight data processing/analysis workflows and subsequent data products for vendors across the AF.

June 2019 - July 2020

Measure UAS, Inc - Data Product Manager | GIS Analyst (Drone Data)

Assisted Measure in applying drones in the design, construction, and maintenance of buildings and infrastructure, and performing the processing and analysis of data collected for its clients. Coordinated with Data Engineering, Flight Operations, Digital Products, and Sales Personnel. Supported Wind and Solar Data Operations and other data product generation using advanced GIS toolsets and paradigms.

INTERNSHIPS

June 2018 - Jan 2019

Walt Disney Imagineering - Master Planning/GIS Intern

Used GIS, design, and architectural tools to develop reports and collaborate on property-wide planning efforts related to Walt Disney transportation, infrastructure, environmental conservation, database management, and park metrics. Used Lidar data to conduct visibility analysis.

SKILLS

GIS 2D/3D Modeling - Cartographic Design, advanced ArcGIS Suite (ArcMap 10+, ArcGIS Pro, ArcCatalog, ArcScene, ArcGIS Online, ESRI Story Map development, ESRI Web App Developer), QGIS, Mapbox Studio, Open Street Map, Geodatabase management, Geoserver, FME, Kepler, GeoJSON manipulation.

UAS Piloting - DJI Phantom + Mavic + M300, Wingta, Parrot, Skydio S2 + X2D, Freefly AltaX, Inspire 1 with RGB and FLIR payloads, Solar Grid Flight Operations, UAS Airspace knowledge (VFR Sectional Charting, NOTAMS, Weather Patterns)

Drone Data Processing/Analysis - Pix4D, DroneDeploy, Agisoft Metashape, LIDAR Modeling with GIS tools, Emotion, Scopito, Measure Ground Control, Marzipano, Aeropoint Integration, DJI GO 4, damage detection via Thermal Imaging, and product development with solar data

Design/Analysis/CRM - Figma, Adobe Photoshop, Adobe Illustrator, AutoCad Civil 3D 2020, Autodesk Recap, Microsoft PPT, Advanced Excel, Word, Canva, Squarespace, Salesforce, JIRA + Confluence

Programming/Dev

- **Languages** - Python, SQL, R, HTML, CSS
- **IDEs** - Pycharm, VSCode, RStudio
- **Environments** - Amazon EC2, Amazon EMR, Databricks, Jupyter, Redhat, PostgreSQL, Docker
- **Libraries/tools** - pandas, geopandas, shapely, folium, ipyleaflet, seaborn, scipy, torch, plotly_express, matplotlib, sklearn, keras, pyspark, kafka, ollama, huggingface, streamlit, langchain, ArcPy, conda, PostGIS, ArcGIS JSAPI, h3, osmnx, overture, duckdb, GDAL, aws cli, ChromaDB, requests