Kachy Nwobi

Geospatial Data Engineer

Contact

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WWW
Bold Profile

Technical Skills

- Geospatial Formats: GeoTIFF

- LAS/LAZ

- Shapefiles

- GeoJSON

- DEM/DTM/DSM

- Tools & Software: GDAL

- ArcGIS Pro

- ArcGIS Online

- ArcGIS Enterprise

- QGIS

- CityEngine

- Programming & Scripting: Python

Versatile geospatial data engineer with 4+ years of experience preparing, processing, and managing spatial datasets for large-scale applications. Skilled in handling raster, vector, and elevation data, with a focus on automating workflows and supporting cross-functional teams. Experienced using GDAL, Python, and open-source GIS tools to align, clean, and format geospatial data for machine learning pipelines, cloud integrations, and mapping platforms. Adept at collaborating with AI/ML, product, and engineering teams to ensure data readiness for research and deployment.

Professional Experience

2020-10 - 2025-03

Geospatial Product & Support Engineer

Esri, Redlands, CA

- Processed and prepared spatial datasets for integration with cloud-based GIS and AEC platforms
- Used GDAL and Python to align, resample, and validate raster and vector data across regions
- Collaborated with engineering and product teams to identify gaps in data coverage and performance
- Supported internal ML initiatives by curating and formatting diverse data types for training and validation
- Helped document technical workflows and supported tool development for internal data pipelines

2019-01 - 2019-08

GIS Data & Content Associate

PolicyMap, Philadelphia, PA

- Cleaned and standardized spatial data using SQL and ArcGIS tools for a national data platform
- Assessed data quality, coverage, and freshness across multiple public and commercial sources
- Wrote documentation and blog posts that explained datasets and supported end users
- Participated in QA and assisted with rolling out new platform features

2018-09 - 2018-12

Urban Planning Analyst (GIS)

CHPlanning, LTD, Philadelphia, PA

- Conducted GIS-based demographic and land use

- Bash

- SQL

- XML

- VBScript

- Platforms: Linux/Unix

- Windows

- Autodesk BIM 360

- Revit

- Civil 3D

- Collaboration Tools: GitHub

- Jira

- Figma

- Lucidchart

- Agile workflows

analysis for public sector projects
- Created visual reports and maps for infrastructure and urban planning proposals
- Assisted with proposal writing and data packaging for client-facing reports

Education

M.S.: Geospatial Technology for Geodesign

Thomas Jefferson University - Philadelphia, PA

B.S.: Environmental Engineering, Minor in Finance

Drexel University - Philadelphia, PA

Affiliations And Community Engagement

- Women in Geospatial Network
- Philadelphia Women in GIS
- Habitat for Humanity – Neighborhood Revitalization Committee

Certifications And Recognition

- Bloomberg Market Concepts
- Order of the Engineer
- AJ Drexel Merit Scholar