

MANEL CAPANGPANGAN

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EDUCATION

DELTA STATE UNIVERSITY

BAS in Geospatial Analysis and Intelligence, Expected 2026

Relevant Coursework: Geospatial Analysis, Imaging Science, Topographic Mapping, Case Studies in GEOINT

TECHNICAL SKILLS

- **GIS Tools:** ArcGIS Pro, ArcMap, ArcGIS Online, Experience Builder
- **Data Analysis:** Microsoft Excel (pivot tables, formulas), Python (basic scripting, table joins), data cleaning
- **Data Formats:** Shapefiles, File Geodatabases, KMZ, CSV, CAD
- **Techniques:** Spatial referencing, map digitization, site suitability, attribute auditing
- **Other Tools:** AutoCAD (introductory), metadata editing
- **Currently Learning:** SQL for data queries and reporting

CERTIFICATIONS & TRAINING

- FEMA IS-100: Introduction to the Incident Command System
- FEMA IS-200: ICS for Single Resources and Initial Action Incidents
- FEMA IS-700: National Incident Management System (NIMS)
- FEMA IS-800: National Response Framework
- CrisisTrack Mobile Damage Assessment Training

REFERENCES

Available upon request

ABOUT ME

GIS and data analyst with hands-on experience in spatial data workflows, database design, and map-based decision support. Skilled in ArcGIS Pro, Excel, and Python for solving real-world challenges across diverse fields. Seeking to apply geospatial and analytical tools to support data-driven decision-making in public or private sector roles.

WORK EXPERIENCE

GIS INTERN

Mississippi Emergency Management Agency (July 2025-Present)

GIS/DATA ANALYST

DSU Geospatial Center (August 2024-Present)

- Designed and managed a searchable utility map of campus infrastructure using ArcGIS Pro and geodatabases
- Digitized electrical, mechanical, and plumbing systems from scanned blueprints; linked assets to attribute tables and photos using barcode IDs
- Cleaned and standardized attribute data for Washington County 911 road segments to improve emergency routing
- Performed data validation and table joins using Excel and ArcGIS; identified and corrected spatial and tabular errors
- Developed map-based tools to support facilities staff, contractors, and university decision-makers
- Documented spatial workflows and contributed to metadata standards for internal data consistency

PROJECTS

CAMPUS UTILITY MAPPING PROJECT

Delta State University Geospatial Center

- Developed a campus-wide utility map covering 40+ buildings, integrating spatial data with photos, QR codes, and metadata
- Created a geodatabase structure using subtypes and domains to organize HVAC, electrical, and plumbing assets
- Designed a user-friendly map interface to support Facilities Management and contractors in tracking repairs and conducting inspections
- Improved internal data workflows by linking spatial features with maintenance records and historical documents

PROFESSIONAL DEVELOPMENT

- Workshops – MS SCAUG Conference — February 2025
- MS SCAUG Annual Meeting — February 2025
- MAGIC 23rd Annual Geospatial Conference — November 2024
- Mississippi Association of Spatial Technologies (MAST) Conference — 2024