

# MANEL CAPANGPANGAN

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## PROFESSIONAL SUMMARY

Detail-oriented GIS and data management specialist with hands-on experience maintaining spatial databases, utility maps, and asset inventories. Skilled in ArcGIS, Excel, and Python for integrating and cleaning data to support public infrastructure and emergency management operations. Strong communicator who connects field and technical teams through clear workflows, documentation, and training.

## KEY SKILLS

Utility infrastructure mapping | GIS database management | Asset management support | Data QA/QC | GPS & drone data collection | Metadata & documentation | Dashboards & web maps | Workflow automation (Python) | Cross-team collaboration

## TECHNICAL SKILLS

ArcGIS Pro | ArcGIS Online | Experience Builder | Field Maps | Microsoft Excel (pivots, lookups) | Python (data cleanup, arcpy basics) | Basic SQL | File Geodatabases (domains, subtypes) | Shapefiles/CSV/CAD integration | Trimble GPS units | AutoCAD (intro) | Metadata editing

## WORK EXPERIENCE

### GIS Intern | Mississippi Emergency Management Agency | Pearl, MS

July 2025 – August 2025

Created maps for emergency events such as hurricanes and severe weather incidents.

- Used disaster-mapping software to visualize affected areas and support situational awareness.
- Gained firsthand experience with how GIS supports real-time decision-making during emergencies.
- Assisted in drone mapping and data collection for post-event documentation.

### GIS/Data Analyst | Delta State University Geospatial Center | Cleveland, MS

Aug 2024 – Sep 2025

Supported geospatial data management and mapping projects for campus and regional operations.

- Built and maintained a searchable campus utility map covering 40+ buildings and infrastructure systems.
- Digitized electrical, mechanical, and plumbing layouts from building blueprints and linked them to QR-coded assets.
- Cleaned and standardized attribute tables to improve accuracy for facilities and emergency routing.
- Created dashboards for Facilities staff and contractors to track maintenance, and documented metadata/workflows to improve data organization and consistency.

## EDUCATION & CERTIFICATIONS

### BACHELOR OF APPLIED SCIENCE IN GEOSPATIAL ANALYSIS AND INTELLIGENCE | DELTA STATE UNIVERSITY | EXPECTED 2026

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

FEMA IS-100: INTRODUCTION TO THE INCIDENT COMMAND SYSTEM | FEMA IS-200: ICS FOR SINGLE RESOURCES | FEMA IS-700: NATIONAL INCIDENT MANAGEMENT SYSTEM | FEMA IS-800: NATIONAL RESPONSE FRAMEWORK | CRISTRACK MOBILE DAMAGE ASSESSMENT | DRONE FLIGHT FAMILIARIZATION (MEMA FIELD EXERCISE)