Prakash Madai | Portfolio: https://prakashmadai10.github.io/Prakash-Portfolio/

Texas, USA – Open to Relocation Nationwide | prakash.madai17@gmail.com | linkedin.com/in/prakashmadai10

EDUCATION

Masters Computer Science | University of Texas Permian Basin (UTPB) | Odessa, TX | GPA: 3.9/4 | Aug, 2022 - May, 2024
Bachelors in Computer Engineering | Tribhuvan University | Kathmandu, Nepal | Dec, 2014- Dec, 2018

SKILLS

ArcGIS Ecosystem: ArcGIS Enterprise (Server, Portal, Data Store, Web Adaptor, SDE), ArcGIS Pro, CityWorks; ArcGIS Online, Hub, Solutions, Dashboards, Experience Builder, StoryMaps
Automation & Field Ops: ArcPy, ArcGIS API for Python, Arcade, ModelBuilder, ETL Pipelines (Spatial/Non-Spatial), Geodatabase Design, Spatial Data Analysis; Field Maps, Survey123, Workforce, GPS, Georeferencing, Geocoding
Programming & Databases: Python, R; MS SQL Server, Oracle, PostgreSQL, NoSQL (MongoDB); Database Design, Data Modeling, API, Linux, HTML, CSS
Data Engineering & AI: Apache Spark, Airflow, SSIS, SSRS, MS Fabric, Power BI, Power Automate, Pandas, Matplotlib, Seaborn; AWS, AI/ML, Data Governance, QA/QC, Financial Services & Tech

WORK EXPERIENCE

GIS Analyst / Administrator & Data Analyst | City of Midland, Texas | 07/2025 – 01/2026

- Administered full ArcGIS Enterprise stack (Portal, Server, Data Store, SDE) and configured Hub collaboration for automated sync of 100+ layers
- Developed Python automation for metadata, permissions, and audit logs for 500+ items, slashing manual effort by ~90%
- Built SSIS ETL and ModelBuilder pipelines to automate nightly GIS refreshes and publish dashboards for City Council and zoning/permit departments
- Integrated EnerGov and Code Enforcement data into ArcGIS Dashboards to resolve geocoding inconsistencies and improve service responsiveness
- Delivered KPI datasets from public safety systems (RMS/CAD) to support police performance reporting and Fire Department field inspections

GIS Analyst / Administrator | City of Odessa, Texas | 03/2024 – 06/2025

- Administered AGOL, ArcGIS Server, and SQL Server for 300+ users, managing 1,000+ layers and automating SharePoint backups via Python, SQL, and Arcade
- Led spatial analysis for the LCRR, analyzing 48,000+ utility records to produce compliance web maps, and deployed public apps like Fire Hydrant Locator
- Implemented ArcGIS Solutions for waste and signal management, enabling mobile data collection, field inspections, and real-time dashboard reporting

Data Analyst - Internship | Rocket Mortgage | Detroit, MI | 05/2023 – 08/2023

- Developed AWS Glue ETL scripts using PySpark and implemented Apache HUDI for incremental data processing across S3 and SQL Server, optimizing storage costs and loan prioritization efficiency

Data Analyst | Virtuosway Software | Kathmandu, Nepal | 10/2021 – 07/2022

- Directed the "Datasphere" project using AWS S3, Lambda, and Glue to increase data processing speeds by 40% and delivered 10+ Power BI dashboards for recruitment insights

Data Analyst & Technical Support | Nepal Clearing House Ltd | Nepal | 01/2020 – 09/2021

- Engineered 35+ interactive dashboards and executive reports via ETL pipelines and OLTP/OLAP systems, analyzing over 100,000 records weekly to uncover critical financial trends
- Automated 1,000+ monthly CSV deliveries to financial institutions by integrating osTicket with ECC archives, reducing manual workflow effort by 80%
- Managed daily payment system operations across connectIPS and CORPORATEPAY platforms, ensuring maximum uptime and transaction reliability for national clearing services

CERTIFICATIONS & TRAINING

Industry Certifications: ArcGIS Pro Foundation 2025 (Esri); CompTIA Data+ v2; Microsoft Fabric Analytics Engineer Associate; Lean Six Sigma Green Belt
Esri Instructor-Led Courses: ArcGIS Enterprise (Base Deployment, Administration Workflows, Python Scripting); Configuring Utility Networks