Janaki Gattu

GIS Consultant | Enterprise GIS Solutions Architect

Senior GIS Systems Administrator | Enterprise GIS Architecture | ETL & Geospatial Development
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PROFESSIONAL SUMMARY

Enterprise GIS Professional with 15+ years of experience installing, configuring, upgrading, administering, migrating, and troubleshooting ArcGIS Enterprise platforms and large-scale geospatial applications. Hands-on experience deploying all core ArcGIS Enterprise components in single-machine and multi-machine on-premises environments; performing in-place upgrades from ArcGIS Enterprise 11.1 to 11.5; and migrating enterprise environments across versions, development, test, and production. Deep expertise in ArcGIS Enterprise (10.8, 10.9, 11.1, 11.5), WebGISDR, ArcGIS Data Store, Enterprise Geodatabase versioning, replicas, and extract-change workflows. Leverages Python, ArcPy, ArcGIS API for Python, REST APIs, FME, PostGIS, GeoServer, and PowerShell to automate complex workflows, integrate high-volume spatial data, and ensure high-availability GIS operations.

CORE TECHNICAL SKILLS

ArcGIS Enterprise Architecture: ArcGIS Enterprise (10.8, 10.9, 11.1, 11.5), Portal for ArcGIS, ArcGIS Server, ArcGIS Data Store, Web Adaptor, Single/Multi-Machine Deployments, In-Place Upgrades, Patching & Maintenance

Migration & Modernization: Enterprise-to-Enterprise & AGOL-to-Enterprise Migration, Version Upgrades, Dev-to-Test-to-Prod Promotion, Service Validation, Post-Migration Troubleshooting

High Availability & Recovery: WebGISDR, Backup & Restore, Disaster Recovery, Recovery Validation, Load Balancers, Operational Readiness

Geodatabase & Data Store: Relational, Tile-Cache & Spatiotemporal Stores, Enterprise Geodatabases, ArcSDE, SQL Server, Branch/Traditional Versioning, Editor Tracking, Archiving, Replicas, Synchronization

Identity, Security & Infrastructure: User Types, Licensing, SAML Single Sign-On, TLS/SSL Certificates, HTTPS, Windows Server, IIS, DNS, Firewall/Network Troubleshooting

Imagery & GIS Services: ArcGIS Image Server, Mosaic Datasets, Image/Map/Feature Services Publishing, Performance Optimization & Monitoring

ETL, Automation & Dev: FME, Python, ArcPy, ArcGIS API for Python, REST APIs, PowerShell, Arcade, ModelBuilder, ArcGIS Notebooks, PostGIS, GeoServer

GIS Applications & Ops: ArcGIS Pro, Experience Builder, Dashboards, Field Maps, Survey123, Web AppBuilder, SOPs, Technical Architecture Diagrams, Root-Cause Analysis

PROFESSIONAL EXPERIENCE

Senior GIS Consultant — CALTRANS (Sacramento, CA) **June 2025 – Present**

- **Platform Modernization:** Modernized statewide GIS content and platform workflows across 12 districts and 20+ divisions by leading ArcGIS Enterprise and ArcGIS Online migration initiatives.
- **Workflow Automation:** Reduced manual migration effort by 45% by developing Python, ArcPy, and ArcGIS Notebook automation for content assessment, migration support, and administrative tasks.
- **Enterprise Migration:** Executed ArcGIS Online-to-ArcGIS Enterprise and AGOL-to-AGOL migrations, including content review, cross-platform coordination, validation, and post-migration governance.
- **System Administration:** Administered enterprise GIS content, web applications, services, and security configurations supporting 800+ active business users across statewide operations.
- **Dependency Classification:** Improved migration readiness by classifying GIS items, validating spatial data dependencies, coordinating remediation, and establishing enterprise transition governance.
- **Database Support:** Supported SQL Server and Enterprise Geodatabase workflows through schema coordination, data validation, quality control, and connectivity troubleshooting.
- **Operational SOPs:** Standardized GIS operational practices by authoring SOPs, technical architecture guides, governance documentation, and user enablement resources.
- **Issue Remediation:** Resolved complex GIS application and service issues by investigating endpoint behavior, validating Web Adaptor/Server configurations, and leading cross-team root-cause analysis.

GIS Consultant — HNTB (San Diego, CA) **January 2022 – May 2025**

- **Solution Architecture:** Delivered high-impact GIS application and data solutions for major infrastructure projects by translating engineering requirements into scalable geospatial workflows.
- **Python Automation:** Engineered Python and ArcPy scripts for spatial data preparation, validation, automated spatial analysis, and repeatable ETL processing.
- **Service Deployment:** Maintained enterprise GIS applications and web services through deployment coordination, troubleshooting, endpoint optimization, and routine maintenance.
- **Geodatabase Integrity:** Strengthened spatial data reliability across SQL Server Enterprise Geodatabases through structured data integration and rigorous quality-control procedures.
- **Cloud Integration:** Contributed to cloud-oriented GIS modernization and Azure-related implementation activities through technical architecture coordination and deployment support.
- **Team Collaboration:** Partnered with a 10-person GIS team on process improvements that contributed to a reported 40% gain in project delivery efficiency.

GIS Consultant — MAXIMUS (Sacramento, CA) **January 2021 – December 2021**

- **Large-Scale Support:** Supported enterprise GIS applications and services used by 1,200+ users through proactive configuration, user access administration, and operational troubleshooting.
- **Process Automation:** Automated repetitive geospatial data tasks using Python scripting, improving processing consistency and significantly reducing manual workload.
- **Database Maintenance:** Sustained spatial data quality across SQL Server and Enterprise Geodatabases by executing rigorous data validation and spatial analysis workflows.

GIS Consultant — CYBERTECH SYSTEMS AND SOFTWARE (Mumbai, India) **August 2016 – December 2020**

- **Platform Administration:** Administered ArcGIS Server, Portal for ArcGIS, and enterprise GIS applications, managing configuration, deployment, patching, and multi-environment uptime.
- **Efficiency Optimization:** Reduced GIS operational support overhead by 40% through workflow automation, standard operating procedures, and automated troubleshooting.
- **Enterprise Geodatabase:** Maintained Enterprise Geodatabase and ArcSDE workflows to support continuous data processing, multi-user editing, and service stability.
- **Root-Cause Analysis:** Diagnosed critical production issues through systematic root-cause analysis, system log audits, and cross-functional technical remediation.

GIS Specialist — GEOSYS ENTERPRISE SOLUTIONS (Hyderabad, India) **August 2013 – July 2016**

- **Application Development:** Developed customized GIS applications and geospatial workflows supporting land-use planning, environmental clearance, and spatial management.
- **Geoprocessing Scripts:** Automated data transformation and spatial analysis using Python, ArcPy, ModelBuilder, and Arcade to ensure repeatable project deliverables.

IT Systems Analyst / Systems Engineer —TCS (Hyderabad, India) **November 2010 – July 2013**

- **Satellite Imagery Processing:** Processed ~1,000 satellite imagery datasets monthly, leading geospatial data production and rigorous quality-control workflows.
- **Workflow Acceleration:** Accelerated data delivery times by 30% and improved spatial data accuracy by 40% through standardized validation frameworks.
- **Database Optimization:** Improved spatial database query performance by 25% and reduced manual raster processing by 40% via automated scripting.

CERTIFICATIONS

- Project Management Professional (PMP®) — Project Management Institute (2021)
- GIS Professional (GISP®) — GIS Certification Institute (2021)
- PMI Agile Certified Practitioner (PMI-ACP®) — Project Management Institute (2022)
- Esri Certified: ArcGIS Pro Foundations (2021) | ArcGIS Desktop Associate (2018, 2019) | ArcGIS Desktop Entry (2017)

EDUCATION

- **Master of Technology (M.Tech.) — Environmental Geoinformatics Engineering**, Jawaharlal Nehru Technological University
- **Bachelor of Technology (B.Tech.) — Chemical Engineering**, Andhra University