Janaki Gattu, GISP

SENIOR GIS APPLICATIONS ENGINEER | ENTERPRISE GIS MODERNIZATION | PYTHON & ARCPY | GIS AUTOMATION | AZURE

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Professional Summary

GIS applications and enterprise GIS professional with 15+ years of experience designing, developing, modernizing, automating, integrating, and supporting enterprise geospatial applications and workflows. Expertise spans ArcGIS Enterprise, ArcGIS Online, ArcGIS Pro, ArcGIS Server, Portal, Data Store, Experience Builder, ArcGIS Solutions, Dashboards, Web AppBuilder, Survey123, Field Maps, GIS web services, Enterprise Geodatabases, SQL Server, Python, ArcPy, Arcade, Model Builder, ArcGIS Notebooks, Esri Extensions, advanced spatial analysis, and spatial visualization. Strong record translating business requirements and legacy processes into scalable GIS applications, automated workflows, documented solutions, and maintainable enterprise architectures. Experienced in GIS modernization, assisted installations on Azure/cloud-oriented environments, AI-assisted GIS development and automation, SDLC, security, troubleshooting, stakeholder collaboration, documentation, and Business users GIS training.

Core Competencies

- GIS Applications & Enterprise Platforms: ArcGIS Enterprise, ArcGIS Online, ArcGIS Pro, ArcGIS Server, Portal, Data Store, Web Adaptor, Experience Builder, ArcGIS Solutions, Dashboards, Web AppBuilder, Survey123, Field Maps, GIS web apps/services, feature services, map services
- GIS Development & Automation: Python, ArcPy, Arcade, Model Builder, ArcGIS Notebooks, Python geoprocessing, workflow automation, geoprocessing services, script automation, application integration, AI-assisted GIS development, AI-assisted coding/automation
- Spatial Analysis & Visualization: Advanced spatial analysis, spatial modeling, geoprocessing, advanced mapping, spatial visualization, feature extraction, data preparation, validation, cartographic visualization, dashboards, interactive GIS applications, maps, tables, graphics
- Database & Data Engineering: SQL Server, relational databases, Enterprise Geodatabases, ArcSDE, schema, versioning, replication, performance, backup/recovery, validation, QA, metadata, GIS migration, spatial/tabular integration
- Esri Technologies & Extensions: Esri Extensions, ArcGIS geoprocessing capabilities, ArcGIS Solutions, Enterprise components, GIS services, Portal administration, security, application configuration
- Cloud & Modernization: Microsoft Azure, cloud GIS architecture, ArcGIS Enterprise cloud migration, cloud GIS applications, modernization, application/service migration, cloud data/service integration
- Web GIS & Modern Development — Working Knowledge: React, TypeScript, ArcGIS Maps SDK for JavaScript, ArcGIS Experience Builder Developer Edition
- Security, Governance & Delivery: RBAC, Active Directory, SAML, SSL/HTTPS, GIS governance, SOPs, runbooks, change/incident management, root-cause analysis, production support, SDLC

Work Experience

California Department of Transportation (Caltrans), Sacramento, USA

Senior GIS Consultant **Jun 2025 - Present**

- Engineer, modernize, administer, and support statewide enterprise GIS applications and geospatial services across ArcGIS Enterprise and ArcGIS Online.
- Design and configure GIS applications using ArcGIS Enterprise, ArcGIS Online, ArcGIS Pro, Experience Builder, ArcGIS Solutions, Dashboards, and GIS web services.
- Translate business requirements and legacy processes into scalable GIS applications, automated workflows, technical designs, and maintainable enterprise solutions.

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- Develop Python, ArcPy, Arcade, Model Builder, and ArcGIS Notebook automation, reducing manual effort by 45%.
- Automate acquisition, transformation, validation, analysis, and publication of spatial and tabular data; apply advanced spatial analysis and visualization.
- Implement ArcGIS Solutions and Esri Extensions; support statewide migration from ArcGIS Online to ArcGIS Enterprise and Azure/cloud-oriented modernization.
- Use AI-assisted development and automation tools for scripting, workflow development, troubleshooting, documentation, and solution design.
- Work with SQL Server and Enterprise Geodatabases/ArcSDE for data management, integration, performance, validation, and operational support.
- Apply SDLC practices across requirements, design, development, testing, deployment, security, troubleshooting, and production support.
- Develop SOPs, runbooks, training, and knowledge-transfer materials; support 800+ users and collaborate across GIS, development, DBA, infrastructure, PM, and stakeholder teams.

HNTB Corporation, Sandiego, USA
GIS Consultant **Jan 2022 - May 2025**

- Developed and supported enterprise GIS applications using ArcGIS Enterprise, Online, Pro, Server, Portal, Experience Builder, Dashboards, and GIS web services.
- Designed modernization approaches for GIS applications, workflows, services, and enterprise environments.
- Used Python, ArcPy, Arcade, Model Builder, and ArcGIS Notebooks to automate geoprocessing, data preparation, validation, and recurring workflows.
- Integrated spatial and tabular data through SQL Server and Enterprise Geodatabases; performed advanced spatial analysis, mapping, and visualization.
- Applied ArcGIS Solutions and Esri Extensions; supported enterprise upgrades, Azure/cloud modernization, and application/service migration.
- Used AI-assisted tools for development, automation, troubleshooting, documentation, and solution design; contributed across SDLC, security, performance, DR, training, and stakeholder collaboration.

Maximus Inc, Sacramento, USA, GIS Consultant **Jan 2021 - Dec 2021**

- Supported enterprise GIS applications and services for 1,200+ users using ArcGIS Enterprise, Online, Pro, Dashboards, Experience Builder, and web services.
- Automated geospatial processing using Python, ArcPy, Arcade, Model Builder, and geoprocessing tools; built SQL Server and Enterprise Geodatabase workflows.
- Performed spatial analysis, mapping, visualization, ArcGIS Solutions, and Esri Extensions work; contributed to Azure/cloud modernization and integration.
- Used AI-assisted tools for scripting, troubleshooting, documentation, and workflow design; supported requirements, testing, deployment, production support, and training.

Cybertech Systems and Software Inc, Mumbai, India
GIS Consultant **Aug 2016 - Dec 2020**

- Developed and supported ArcGIS Server, Portal, enterprise GIS applications, and web services.

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- Built Python, ArcPy, Model Builder, and geoprocessing automation that reduced support effort by 40%; used Arcade for GIS application logic.
- Applied ArcGIS Solutions and Esri Extensions; produced advanced maps, spatial visualizations, and geospatial analysis.
- Worked with Enterprise Geodatabases/ArcSDE and automated spatial data processing and validation; supported Azure/cloud modernization and AI-assisted development.
- Performed RCA, deployment, patching, change management, monitoring, architecture, modernization, documentation, and training.

Geosys Enterprise Solutions Private Limited, Hyderabad, India
GIS Specialist **Aug 2013 - Jul 2016**

- Developed and supported Esri GIS applications, ArcGIS Server services, enterprise geospatial workflows, and web services.
- Used Python, ArcPy, Model Builder, Arcade, and geoprocessing tools for GIS automation and spatial processing.
- Performed spatial analysis, mapping, visualization, spatial/tabular integration, and validation using Enterprise Geodatabases/ArcSDE.
- Implemented ArcGIS Solutions and Esri Extensions and contributed across SDLC, troubleshooting, documentation, training, and governance.

Tata Consultancy Services, Hyderabad, India
IT Systems Analyst **Nov 2012 - Jun 2013**

- Supported enterprise GIS web applications using ArcGIS Server and middleware across requirements, architecture, design, development, testing, deployment, and support.
- Used Python, ArcPy, Model Builder, Server administration, and Esri Extensions; performed advanced spatial analysis and mapping.
- Collaborated with technical teams to resolve GIS application, data, and service issues and produced technical reports and documentation.

Systems Engineer **Nov 2011 - Oct 2012**

- Supported GIS integration, spatial processing, analysis, and geodatabase workflows using Python and Model Builder.
- Processed more than 1,000 satellite imagery datasets monthly; applied advanced spatial analysis and automation, contributing to approximately 30% faster project delivery.

Assistant Systems Engineer **Nov 2010 - Oct 2011**

- Supported GIS integration, spatial analysis, geoprocessing, and Enterprise Geodatabase workflows using Model Builder.
- Improved data accuracy by approximately 40%, query performance by approximately 25%, and reduced manual processing time by approximately 40%. Extracted more than 1,500 topographic features.

Certifications:

- 2022, Agile Certified Practitioner from PMI, USA.
- 2021, Geographic Information Systems Professional-GISP, GIS Certification Institute, IL, USA.

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- 2021, Project Management Professional from PMI, USA.
- 2021, ESRI ArcGIS Pro Foundations, Esri Inc., CA, USA.
- 2019, ESRI ArcGIS Desktop Associate 19-001, Esri Inc., CA, USA.
- 2018, ESRI ArcGIS Desktop Associate, Esri Inc., CA, USA.
- 2019, ESRI ArcGIS Desktop Associate, Esri Inc., CA, USA.
- 2018, ESRI ArcGIS Desktop Entry 19-001, Esri Inc., CA, USA.
- 2017, ESRI ArcGIS Desktop Entry 10.5, Esri Inc., CA, USA.

Education:

- JNT University- Master of Technology, Environmental Geoinformatics Engineering
- Andhra University- Bachelor of Technology- Chemical Engineering

References:

Available upon Request