

RAMY ALYATIM

Geospatial Technical Lead | Federal Real Estate & GIS Development
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ramyalatim.com | U.S. Secret Clearance, current

SUMMARY

Geospatial technical lead with more than ten years in federal real estate, infrastructure, and county GIS, including nearly seven years at USACE. Applied LiDAR and bathymetry to military infrastructure siting and line-of-sight analysis, and LiDAR to flood-risk assessment. Combines enterprise GIS, property research, Python/SQL automation, web applications, and AI-assisted development. Supervised GIS staff for at least three years and independently delivered geospatial support on overseas engineering teams. Delivers practical tools and documented workflows for engineers and realty specialists.

CORE SKILLS

LiDAR & Terrain Analysis: Point-cloud classification; elevation products; LiDAR/imagery QA; bathymetric data analysis; line-of-sight and viewshed analysis; hydrologic and flood-risk support; coordinate systems and projections

Enterprise GIS & Applications: ArcGIS Pro; ArcGIS Enterprise; Portal for ArcGIS; ArcGIS Server; ArcGIS Online; enterprise geodatabases; ArcGIS REST API; Dashboards; Survey123; Field Maps

Real Estate & Utilities: Federal real property; cadastral maintenance; deed research; legal descriptions; COGO; parcel and boundary mapping; lease site-selection support; pipeline and power-line mapping; utility outgrants

Development & Data: Python; ArcPy; pandas; GeoPandas; GDAL/OGR; SQL; JavaScript/TypeScript; React; React Native; Node.js; FastAPI; REST integrations; PostgreSQL/PostGIS; SQL Server; spatial ETL

Standards & Quality: Schema design; authoritative-data governance; metadata; spatial and attribute QA/QC; GIS SOPs; SDSFIE familiarity; manual and automated testing; defect investigation

AI-Assisted Development: Codex and Claude Code for prototyping, refactoring, debugging, testing, and documentation; Anthropic API tool use; human review and validation; applied interest in GeoAI for mapping and data QA

Project Delivery & Leadership: Requirements discovery; work prioritization; delivery timelines; multidisciplinary coordination; technical documentation; staff supervision; user training; stakeholder demonstrations and handoff

PROFESSIONAL EXPERIENCE

Product Engineer, Defense Solutions

May 2026 – Aug 2026

Esri | Remote

- Designed, configured, and tested ArcGIS Solutions for defense and intelligence organizations, aligning applications, geoprocessing tools, workflows, and data models with operational requirements.
- Translated customer and industry-team needs into reusable solution patterns, technical documentation, and release-ready configurations, carrying work from discovery through validation and delivery.
- Executed manual and automated tests, investigated defects, and evaluated release readiness against operational workflows.

Lead Cartographer & Knowledge Manager

Sep 2019 – May 2026

U.S. Army Corps of Engineers, Seattle District | Seattle, WA

- Administered GIS for the district Real Estate program using ArcGIS Enterprise, ArcGIS Online, PostgreSQL, and SQL Server, with Portal administrator rights on Seattle District and Northwestern Division instances.
- Supported deed research, COGO, legal-description analysis, and authoritative land-ownership records; helped create GIS tools used by realty specialists for site selection of military recruiting-office leases.
- Mapped pipelines and power lines across multiple USACE projects; supported hydropower real-estate work and helped administer outgrants for utilities and energy companies on USACE-owned land.
- Classified LiDAR point clouds and created elevation and terrain products; used LiDAR for hydrologic analysis supporting flood-risk assessment before and after infrastructure and levee construction.
- Developed reusable Python, ArcPy, pandas, GDAL, SQL, and ModelBuilder workflows; automated flood-inundation raster conversion into standardized polygons, reducing hours of manual work to minutes and removing recurring hand-editing errors.
- Managed authoritative spatial data from sourcing and transformation through validation, maintenance, and retirement; established metadata, QA/QC procedures, governance, and GIS SOPs, with familiarity in SDSFIE standards used at USACE.
- Built ArcGIS Online and Enterprise maps, dashboards, and mobile workflows for district and multidistrict teams, including a FUDS/UXO application supporting prioritization of unexploded-ordnance remediation on private land.
- Managed GIS requirements, competing priorities, and multidisciplinary delivery; directly supervised a small GIS team for at least three years, trained users, and advanced from GS-07 to GS-12 in two years.

Geospatial Engineer, Forward Engineer Support Team

2021 – 2025

U.S. Army Corps of Engineers | CENTCOM, INDOPACOM & SOUTHCOM (rotational)

- Sole geospatial specialist on eight-person engineering teams across six overseas rotations to Kuwait, Colombia, the Philippines, and Honduras; independently managed requirements, data, delivery timelines, and stakeholder communication.
- Analyzed LiDAR and bathymetric data to support siting of piers for naval vessels and air traffic control towers; performed line-of-sight analysis for military infrastructure planning.
- Designed and deployed a map-centric dashboard tracking EDCA infrastructure projects in the Philippines; adopted by USACE, INDOPACOM, and Army leadership for operational visibility and coordination.
- Developed and delivered an eight-hour training course and supporting documentation at Field Force Engineering's request, enabling transition of the dashboard to a dedicated full-time maintainer.
- Integrated UAV imagery and delivered Survey123 and Field Maps workflows with automated validation and reporting for engineering and operational planning in low-connectivity environments.
- Built the CREST dashboard from home station for a Missile Defense Agency flight experiment in Guam; supported CERTEX exercises with JTF-Bravo and ARSOUTH.

GIS Analyst

Sep 2015 – Sep 2019

Harris Govern, Local Government Solutions | Allen, TX

- Maintained county-scale cadastral and land-ownership data using COGO, legal-description analysis, georeferencing, and parcel-mapping QA.
- Assisted with deed processing, parcel splits, and maintenance of authoritative county base maps, connecting property records with consistent spatial data.
- Translated CAMA and zoning needs into GIS workflows supporting county appraisal, assessment, and land-records operations.
- Supported county data conversion and migration; automated geocoding, spatial processing, and map production with Python and ModelBuilder.
- Built client-facing web maps and trained county officials on GIS integration, explaining technical workflows to non-technical government users.

SELECTED GEOSPATIAL DEVELOPMENT

- **Terrain Lab.** Built a React/TypeScript and MapLibre prototype for interactive viewshed and line-of-sight analysis and elevation profiles from open digital elevation model (DEM) tiles. Implemented browser-worker terrain processing, adjustable observer height, and grade and elevation-gain displays, with data-resolution and informational-use limits shown alongside results. Integrated the tool into a portfolio site designed and built from scratch.
- **PatrolSmart.** Built a private-beta security-operations platform connecting a React/Mapbox dashboard with a React Native field app for GPS- and photo-tagged incident reporting, scheduling, and site management. Translated manager and field-user needs into map-based review and reporting workflows; implemented agency-scoped data access and role-based permissions for managers, field staff, and clients.

EDUCATION & RECOGNITION

B.S. Geography, GIS Certificate | University of North Texas, 2017

A.S. General Studies | Collin College, 2014

Recognition: Civilian Service Commendation Medal (2021, 2023, 2025); HQ Real Estate Professional of the Year (2022); Seattle District Innovator of the Year (2022); New Employee of the Year (2019).