RAMY ALYATIM

Phone: (940) 293-7112 | **Email**: Ramyyatim7@gmail.com | **Location**: Seattle, WA 98168 | **Security Clearance**: Secret

GIS & CARTOGRAPHY PROFESSIONAL | INNOVATING MISSION-CRITICAL GEOSPATIAL SOLUTIONS

Results-driven geospatial engineer with extensive experience designing and deploying ArcGIS solutions for defense, infrastructure, and enterprise operations. Proven success leading automation, web GIS, and dashboard initiatives that improve decision-making and mission readiness. Skilled in ArcGIS Pro, Python, CAD, and enterprise geospatial data management.

PROFESSIONAL EXPERIENCE

Lead Cartographer/Knowledge Manager
U.S. Army Corps of Engineers (USACE) – Seattle, WA | *September 2019 – Present*

- **Enterprise GIS & Database Management:** Administer ArcGIS Enterprise, SQL Server, and PostgreSQL geodatabases supporting regional real estate, infrastructure, and environmental programs. Manage LiDAR, remote sensing, and spatial datasets used in planning and operations.
- **Advanced Cartography & Map Production:** Produce high-accuracy maps and spatial products using ArcGIS Pro, AutoCAD, and Python scripting. Support engineers and planners with clear, data-driven visuals for technical and field use.
- **GIS Automation & Scripting:** Develop and maintain Python, SQL, and ModelBuilder tools that reduce manual processing time and standardize workflows across multiple projects.
- **Web GIS & Cloud-Based Solutions:** Configure ArcGIS Online and Enterprise Portal environments. Build web maps, dashboards, and mobile tools that allow decision-makers to access and update project data in real time.
- **Spatial Analysis & Remote Sensing Integration:** Perform hydrologic, terrain, and land-use analysis using LiDAR, satellite, and UAV data. Integrate remote sensing results into site assessments and engineering studies.
- **Stakeholder Collaboration & Project Management:** Coordinate with federal agencies, military units, and private sector partners to align geospatial initiatives with operational goals, infrastructure development, and environmental compliance.
- **Regulatory Compliance & GIS Governance:** Maintain federal GIS standards, data accuracy, and accessibility across all enterprise systems. Ensure spatial information supports legal, regulatory, and environmental documentation.
- **Geospatial Training & Technical Leadership:** Provide mentorship and structured training for staff in ArcGIS tools, data management, and mobile field workflows.
- **Data Standardization & Quality Control:** Define data validation and QA/QC procedures to maintain consistent, authoritative datasets across the district.

Geospatial Engineer
U.S. Army Corps of Engineers (USACE) – Various TDY Deployments | *2021, 2023, 2024*

- **Field GIS & Engineering Support:** Provided real-time geospatial support, GIS analysis, and mapping solutions for engineering, logistics, and infrastructure planning missions in INDOPACOM and CENTCOM deployments.
- **Web GIS & Data Visualization:** Designed and maintained ArcGIS Online dashboards, operational web maps, and mobile GIS applications to enhance situational awareness and cross-agency collaboration.
- **Remote Sensing & Imagery Analysis:** Processed and analyzed aerial imagery, LiDAR, UAV datasets, and photogrammetry for terrain modeling, environmental impact assessments, and military engineering projects.
- **Geospatial Application Development:** Created custom Survey123 and Field Maps applications for field data collection, integrating Python automation for data validation and reporting.
- **Interagency Coordination & Technical Support:** Collaborated with combatant commands, foreign military officials, and U.S. military branches to integrate GIS workflows into operational planning and mission execution.
- **GIS Data Management & Compliance:** Ensured spatial data accuracy, metadata standardization, and adherence to geospatial governance policies across deployed operations.

Geographic Information Systems Analyst
Harris Govern – Allen, TX | *September 2016 – September 2019*

- **GIS Data Management & Cadastral Mapping:** Maintained and processed GIS datasets, cadastral data, and real estate parcel mapping, ensuring accuracy in property assessments and land records.
- **Parcel Mapping & Legal Description Analysis:** Conducted COGO-based legal boundary adjustments, georeferencing, and zoning analysis using ArcGIS and CAD software.
- **Automated GIS Workflows & Scripting:** Developed Python scripts and ModelBuilder tools to automate geospatial data processing, geocoding, and map production workflows.
- **Public Engagement & GIS Training:** Provided technical training on Computer-Aided Mass Appraisal (CAMA) software, guiding county officials in GIS data integration and property valuation mapping.

APPLIED RESEARCH AND INDEPENDENT PROJECTS

PatrolSmart – AI-Enabled Security Workforce Platform | *2023–Present*
- Developed a multitenant SaaS platform integrating Firebase, React, and ArcGIS to optimize security operations.
- Implemented AI-assisted incident reporting, user analytics, and certificate tracking.
- Designed secure data architecture and real-time map-based dashboards.

Smart RV Command Center – IoT Dashboard System | *2024–Present*
- Engineered a Raspberry Pi–based environmental monitoring and automation dashboard for off-grid RV systems.
- Integrated BME280, GPS, and accelerometer sensors to feed live telemetry into a custom interface.
- Implemented edge-AI processing for environmental alerts and energy optimization.

Isla Myco – Smart Agriculture & Data Automation | *2024–Present*
- Developed an intelligent cultivation monitoring system for mushroom farming operations.
- Automated environmental tracking, sterilization cycles, and yield analytics.
- Designed data-driven dashboards for production insights and quality control.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Geography
University of North Texas – Denton, TX | *May 2017*
- Certificate in Geographic Information Systems (GIS)
- Dean's List Recognition

Associate of Science in General Studies
Collin County Community College – McKinney, TX | *June 2014*

CORE COMPETENCIES & TECHNICAL PROFICIENCIES

- **Geospatial Data Management & Analysis**: Enterprise GIS Administration, Spatial Database Management, Remote Sensing, LiDAR Processing, Raster & Vector Analysis, Geospatial Intelligence (GEOINT), Cartographic Design, Topographic Mapping, GPS Surveying, Data Integration, Hydrological & Terrain Modeling
- **GIS Application Development & Automation:** Python for GIS, ModelBuilder, Geoprocessing Automation, SQL & Database Queries, Custom GIS Tool Development, ArcGIS Online & Enterprise Portal, Web GIS Services, Geospatial Data Visualization, Real-Time Mapping Solutions, AI & Machine Learning in GIS
- **Technical Proficiencies:** ArcGIS Pro, ArcGIS Enterprise, AutoCAD, PostgreSQL, SQL Server, ESRI Field Maps & Survey123, Tableau, Power BI, Cloud GIS Solutions (AWS, Azure), GPS & GNSS Systems, Remote Sensing Software (ENVI, ERDAS), CAD-Based Mapping, COGO, UAV Photogrammetry
- **Project Management & Stakeholder Collaboration:** Scope Development, Risk Assessment, Budget Planning, Cross-Agency Coordination, Federal GIS Policy Compliance, Regulatory Reporting, Interdepartmental Communication, Data Governance, Workflow Optimization, Business Intelligence (BI) Integration

AWARDS & RECOGNITIONS

- **Civilian Service Commendation Medal | U.S. Army Corps of Engineers (2025):** Recognized for continued architecture of theater-wide enterprise GIS frameworks and automated real-time dashboards that synchronized multi-agency data for INDOPACOM leadership, significantly accelerating mission-critical decision cycles.
- **Civilian Service Commendation Medal | U.S. Army Corps of Engineers** *(2023)*: Recognized for exceptional contributions as a Geospatial Engineer during the INDOPACOM FEST deployment. Developed innovative GIS dashboards to enhance senior leadership engagement and streamline mission-critical data dissemination.
- **Real Estate Professional of the Year | U.S. Army Corps of Engineers (HQ USACE)** *(2022)*: Honored for leadership in Real Estate GIS production and geospatial program management. Led development teams to optimize workflows, improve data integrity, and enhance mapping accuracy across USACE.
- **Innovator of the Year | U.S. Army Corps of Engineers, Seattle District** *(2022)*: Awarded for pioneering geospatial solutions that optimized data visualization, intelligence sharing, and GIS automation during CENTCOM operations.
- **Civilian Service Commendation Medal | U.S. Army Corps of Engineers** *(2021)*: Recognized for excellence in geospatial engineering and mission-critical GIS support during the FEST deployment.
- **New Employee of the Year | U.S. Army Corps of Engineers, Seattle District** *(2019)*: Awarded for outstanding performance, adaptability, and technical expertise in geospatial data management.

VOLUNTEER & COMMUNITY INVOLVEMENT

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USACE Flood Fighting Team | Infrastructure Assessment PDT | Blue Roof Initiative | Forward Engineer Support Team (FEST)