

Proven at state scale. Delivered by the architect.

Raj Gupta, Founder & CEO. Software architect with 20+ years on statewide and regulated enterprise systems.

CORE COMPETENCIES

Geospatial Engineering

- PostGIS spatial databases and analytics
- GeoServer map and tile services
- Self-hosted OpenStreetMap geocoding
- Satellite-derived sky-brightness models (NASA/NOAA VIIRS)
- GRIB2 numerical weather ingestion

Application Development

- Native iOS, Android and Flutter
- Augmented reality on live geospatial data
- Citizen portals and case management
- C#/.NET, Angular, Python and SQL platforms
- AWS GovCloud and Azure Government

Applied AI & Modernization

- Retrieval-augmented search over agency records
- Mainframe and COBOL migration
- Level 3 production support under SLA
- Staff augmentation with onshore engineers

FIRM PROFILE

Entity: NYRA Tech Corporation
Texas C-Corporation, formed 2025 · Small business
Headquarters: Richardson, TX
UEI: T98FQWGQDDN1 · **CAGE:** 25FK8
Intellectual property: USPTO application 19/288,980, pending

CODES & CERTS

Primary NAICS

- 541511 Custom Computer Programming Services

Secondary NAICS

- 541512 Computer Systems Design Services
- 541519 Other Computer Related Services
- 541370 Surveying and Mapping Services

Compliance

- CMMC Level 1 self-assessment in progress
- WCAG 2.1 AA and Section 508 delivery

POINT OF CONTACT

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FIRM OVERVIEW

NYRA Tech Corporation is a Texas small business offering geospatial engineering, cloud, web and mobile application development, and applied AI services to federal, state and local agencies and to prime contractors. NYRA designed, built and operates a geospatial platform that converts NASA and NOAA satellite night-lights data, numerical weather models and astronomical ephemerides into a public light pollution map and iOS and Android applications used by scientists and astronomers. The method is the subject of USPTO application 19/288,980.

Agencies acquire the platform as a complete system, deployed in their own data center or government cloud on PostGIS, GeoServer and a self-hosted OpenStreetMap database, with NYRA engineers under contract for operation and support. The founder brings 20+ years of enterprise delivery, including the State of Florida motor vehicle modernization at Accenture Federal Services and core banking platforms at Bank of America and Jack Henry & Associates.

DIFFERENTIATORS

- **Statewide-program depth at small-business scale.** The architect who led Florida's 24-million-record motor vehicle modernization leads your project. Primes meet small-business subcontracting goals with no drop in the technical bench.
- **Geospatial, weather and AI in one architecture.** PostGIS at state scale, satellite raster modeling, GRIB2 weather ingestion and retrieval-augmented search over agency records, designed and maintained by one accountable team.
- **A fielded system you can evaluate before award.** The map is public, the applications are live on the App Store and Google Play, and the method is under USPTO review. A live demonstration takes ten minutes.
- **Operates inside your security boundary.** The full stack installs on-premise or in AWS GovCloud and Azure Government under the agency's controls, with no commercial map provider in the chain. Built to state DMV, financial audit and Section 508 standards.

PAST EXPERIENCE

- **State of Florida Department of Highway Safety and Motor Vehicles, through Accenture Federal Services (5M cards, 24M records).** Technical lead for the phased modernization of the statewide driver license and vehicle title systems, delivered under state security, compliance and accessibility requirements.
- **Bank of America, Jack Henry & Associates, Honeywell (regulated enterprise systems).** Architect and senior engineer for core banking, information security and enterprise platforms operating under financial regulatory audit, including event-driven fraud detection and real-time transaction processing services.
- **NYRA geospatial platform (USPTO 19/288,980).** Designed and operates the sky-brightness modeling pipeline, GRIB2 weather ingestion, self-hosted OpenStreetMap services and astronomical computation behind a public web map and iOS and Android applications with an AR view.
- **Production support (50+ applications).** Level 3 support for business-critical applications: ITSM ticketing, incident and release management, SLA-backed response, and transition of systems built by other vendors.

TECHNOLOGY STACK



PostGIS · GeoServer · OpenStreetMap · GDAL · VIIRS · GRIB2 · Swift · Kotlin · ARKit · ARCore