SRINIVASAN MANI

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PROFILE SUMMARY

Experienced GIS professional with 6+ years in transportation planning, fleet optimization, spatial analysis, routing optimization, and geospatial project management. Skilled in Python ETL pipelines, interactive tools for GNSS and ionospheric data analysis, PostgreSQL/PostGIS, QGIS, ArcGIS Pro, Google Earth Engine, and geospatial modeling. Proven track record delivering data-driven solutions.

PROFESSIONAL EXPERIENCE

INTERN - GERMAN AEROSPACE CENTER (DLR), NEUSTRELITZ   *MAR 2025 – SEP 2025*

- Developed an interactive Marimo application for real-time and historical visualization of NEDM ionospheric data, optimized with multiprocessing for high performance.
- Engineered a high-throughput GNSS scintillation ETL pipeline using Polars and SQLAlchemy, reducing processing time by over 3×.
- Automated GeoServer configuration and WMS/WFS publishing via REST API, enabling seamless spatial data sharing for 10+ researchers and improving project scalability.
- Optimized TEC data ingestion workflows using multiprocessing and batch transactions for faster and more efficient database integration.

SENIOR GIS ANALYST - TRIMBLE, INDIA   *2019 – 2023*

- Led a nationwide U.S. retail logistics project, implementing geofencing and geocoding solutions that improved route efficiency and reduced delivery times by 50%.
- Deployed the COVID-19 Driver Information System, providing real-time store updates to 500+ drivers and ensuring safe logistics operations during the pandemic.
- Mentored a team of GIS analysts, maintaining data accuracy above 99% across nationwide spatial datasets.

GIS ENGINEER - TRIMBLE, INDIA   *2017 – 2019*

- Performed routine testing and analysis of truck routing data for U.S.–Mexico operations, incorporating road restrictions, bridge clearances, speed limits and HazMat routes to ensure regulatory compliance.
- Enhanced routing and navigation systems across 25,000+ miles of transportation networks, increasing reliability and reducing routing errors.

INTERN - GYOKAP SURVEYING TRAINING INSTITUTE, INDIA   *DEC 2019*

- Trained in UAV surveying, DGPS data collection, LiDAR-based 3D terrain modeling for topographic analysis.

INTERN - INSTITUTE OF REMOTE SENSING (IRS), INDIA *JUL 2014*

- Conducted land-use and land-cover mapping using Total Station and DGPS for field survey integration with satellite imagery.

INTERN - INDIAN METEOROLOGICAL DEPARTMENT (IMD), INDIA *JUL 2014*

- Monitored weather conditions using Doppler radar and rain gauge data to support short-term rainfall forecasting.

EDUCATION

MASTER OF ENGINEERING IN GEOMATICS *2023 – PRESENT*

Hochschule Neubrandenburg, University of Applied Sciences, Germany

BACHELOR OF ENGINEERING IN GEO-INFORMATICS *2011 – 2015*

Regional Centre of Anna University, Tirunelveli, India

CONFERENCES

INTERGEO 2023, BERLIN, GERMANY

Attended a leading international conference on geodesy, GIS, UAV mapping, and 3D modeling technologies for smart cities and digital twins.

TECHNICAL SKILLS

Programming	Python, PostgreSQL/PostGIS, JavaScript, HTML, CSS, Git
GIS & Remote Sensing Tools	QGIS, ArcGIS Pro, SNAP, Agisoft, Google Earth Engine, GeoServer

ADDITIONAL INFORMATION

Languages	English (C1), German (A2), Tamil (Native)
Soft Skills	Problem-solving, Team collaboration, Research communication

REFERENCES

Prof. Dr. Frank Günther	Professor, Photogrammetrie, Fernerkundung, GIS, Kartographie
	Hochschule Neubrandenburg, University of Applied Sciences
	Email: guenther@hs-nb.de
Martin Kriegel, M.Eng.	Group Leader, Pre-operational Services
	German Aerospace Center (DLR), Neustrelitz
	Email: Martin.Kriegel@dlr.de