

SHANE D. TEEL

Fayetteville, NC 28306 | 928-830-1095 | **TS/SCI Clearance w/ CI/Poly (Active)**
svteel1106@icloud.com | <http://www.linkedin.com/in/shane-teel> | <https://github.com/ShaneTeel>

PROFESSIONAL SUMMARY

13-year intelligence analyst transitioning to data science – designed technical systems to automate analytic tradecraft after spending over a decade of manual application. 400-hour data science immersive & ongoing BS in Data Science (GPA: 4.0) serves as foundation for production-quality geospatial analytics & computer vision systems designed to bridge SOF intel methodology with modern ML engineering. Targeting data science roles at the intersection of geospatial analytics, computer vision, and intelligence community support.

TECHNICAL SKILLS

Programming & Development: Python | SQL | Java | Conda | Git | GitHub | Bash | VS Code

Machine Learning: scikit-learn | imbalanced-learn | Regression | Classification | Clustering | Kalman Filter | RANSAC | Markov Chains

Data Analysis & Visualization: Pandas | NumPy | SciPy | Matplotlib | Seaborn | Plotly

Spatial Analysis: Shapely | GeoPy | Folium | GeoPandas | Trackintel | scikit-mobility

Computer Vision: YOLOv8 | OpenCV | Supervision (Multi-Object Tracking) | Homography

Intelligence Tools: MOSAIC | FADE/MIST | DataXplorer | CRATE | Analyst Notebook

TECHNICAL PROJECTS

Lane-Line Detection | <https://classic-lane-line-detection.streamlit.app/>

Completed during USASOC AI Internship | Aug 2025 – Oct 2025

Python, OpenCV, NumPy, Kalman Filtering, RANSAC, Pydantic, Streamlit | Dec 2025

- Real-time computer vision system for lane detection achieving 94–99% prediction accuracy; custom RANSAC regression & Kalman filter for robust lane-tracking
- Modular, deployable application with configurable inference pipeline, real-time progress tracking (30 FPS) and full resource lifecycle management on high-velocity data

Pattern-of-Life Analysis Toolkit | <https://pattern-of-life-analysis.streamlit.app/>

Python, Pandas, SciPy, Shapely, Markov Chains, NetworkX, Plotly, Streamlit | Feb 2026

- End-to-end mobility analytic platform processing over 350,000 GPS traces through custom stay-point detection, DBSCAN clustering, and first-order Markov prediction
- Interactive dashboard enables analysts to investigate anomalies, trends, and behavioral patterns to inform analytic confidence and qualify the certainty of predictions
- Novel Maturity metric using the harmonic mean of exponential decay curves coupled with inverted Shannon entropy quantifies a user's relationship with a location over time

Traffic Conflict Detection | <https://github.com/ShaneTeel/traffic-conflict-detection>

Python, YOLOv8, Supervision, Inverse Perspective Mapping, OpenCV, Folium | Mar 2026

- End-to-end system combining YOLOv8 with Supervision for multi-object tracking to identify, catalogue, & geolocate vehicle conflict events from traffic camera footage
- Custom inverse-perspective mapping pipeline that transforms pixel-space conflict coordinates to geographic coordinates; achieves RMSE score of 1.47 meters

PROFESSIONAL EXPERIENCE

Senior Intelligence Sergeant | Curriculum Developer (Embedded TF 40-25)

Analytical Support Company, 389th MI BN (SO)(A) | Ft. Bragg, NC | Jan 2022 – July 2024

- Managed intelligence production pipeline for 20 analyst cross-functional team; defined analytic workflows, set production standards, & delivered outputs to clients
- Coordinated with USASOC, USSOCOM, TSOCs, and interagency partners to coordinate intelligence priorities, develop requirements, and synchronize analysis and collection
- Developed 6-week training program integrating targeting analysis and collection management using CRATE, DataXplorer, MOSAIC, FADE Mist, and Analyst Notebook
- Organized training with six government agencies (DIA, NRO, NGA, NSA, CIA, DTRA); exposed students to multi-INT capabilities across HUMINT, SIGINT, and OSINT

Senior Intelligence Advisor / Squadron Intelligence Advisor

2nd Security Forces Assistance Brigade | Fort Bragg, NC & Deployed | Sep 2018 – Jan 2022

- Real-time manual geolocation of over 30 threat actors via Coalition forces aerial ISR; analog for homography pipeline later built and validated at 1.47m RMSE
- Processed and analyzed multiple intelligence streams for twice-daily assessment; generated insights and predictions informed operational planning and decision-making

All-Source Intelligence Analyst

10th Special Forces Group (Airborne) | Fort Carson, CO & Deployed | Aug 2014 – Sep 2018

- Pattern-of-life analysis of over 50 entities that informed force reallocation strategy; influenced pattern-of-life analysis toolkit as automated analytics platform
- Developed collection requirements and coordinated aerial ISR collection for route reconnaissance supporting force protection during bilateral patrol operations

EDUCATION

Arizona State University | Tempe, AZ (Online) | GPA: 4.0/4.0

Data Science (BS) (In Progress) | Started 2024 | pursuing during full-time employment
Concentration: Spatial Sciences (GIS) | Minor: Statistics

Galvanize, Inc. | Remote | Completed July 2025

Data & Development Immersive (400-hours)

Instructor Evaluation (Chad McCauliff): “Final project was one of the most complex and well-executed we’ve seen”

PROFESSIONAL MILITARY EDUCATION & CERTIFICATIONS

Intelligence Analysis & Tradecraft

DIA Critical Thinking & Structured Analytics

DIA Analytic Writing & Briefing

Data Gathering & Collection

Defense Strategic Debriefing Course

SF Network Development Course

MOSAIC Foundations

AWARDS & RECOGNITIONS

Meritorious Service Medal (3x) | Army Commendation Medal | SFAC NCO of the Year (2020)