

MATTHEW PRICE

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PROFESSIONAL SUMMARY

GIS Engineer and Geospatial Science professional with 8+ years of experience spanning national security-grade infrastructure mapping, Arctic boundary analysis, and large-scale commercial cartography. Led geospatial production at Apple Maps and directed Critical Infrastructure Systems (CIS) initiatives requiring the highest standards of spatial data integrity and QA/QC. Combines deep technical proficiency in Python automation, ArcGIS, and PostGIS with proven team leadership across both enterprise and mission-critical environments.

PROFESSIONAL EXPERIENCE

GIS Manager *Aug 2024 – May 2025*

Tomkulak Consortium

- **Directed a national-scale Geospatial Science and Geomatics** initiative spanning over 8,000 miles of Arctic territory, delivering high-accuracy boundary analysis and Critical Infrastructure Systems (CIS) mapping in support of national policy and treaty objectives.
- **Led a team of 5–8 GIS analysts** across the full geospatial production lifecycle — from satellite imagery interpretation and spatial modeling to cartographic output and final map preparation.
- **Processed and validated 1,000+ spatial datasets** and thousands of individual features using ArcGIS Pro, QGIS, and enterprise GIS platforms, maintaining strict data integrity standards aligned with national security protocols.
- **Applied advanced remote sensing methodologies** and satellite imagery analysis to verify and enhance Arctic spatial datasets across dynamic and geopolitically sensitive terrain.
- **Implemented rigorous QA/QC frameworks** ensuring all geospatial intelligence products met compliance requirements for national security use.
- **Coordinated delivery of geospatial intelligence products** across national and international stakeholder organizations — including the Arctic Council, Inuit Tribal Government, and U.S. Government — directly informing policy-level Arctic boundary determinations.
- **Collaborated with professional geologists to conduct spatial analysis informing Critical Infrastructure Systems (CIS) placement** decisions across transportation networks, including hospitals, ports, highways, and airports — integrating subsurface and terrain data to support site suitability and risk assessment.
- **Produced geospatial maintenance planning datasets** identifying long-term environmental and geological risk factors for infrastructure systems post-construction, providing actionable spatial intelligence to support lifecycle management decisions.

Facility & Operations Manager *Feb 2020 – Present*

Montavilla Sol Gardens

- **Oversaw operational logistics**, safety compliance, and resource coordination for an active urban horticulture facility in Portland.
- **Maintained documentation, reporting, and compliance tracking systems** — sustaining organizational continuity across a multi-year operational period.

GIS Engineer – Team Lead *Nov 2016 – Feb 2020*

Apple (via Apex Systems)

- **Supervised 7 GIS engineers** focused on GIS application development, UI enhancement, and geospatial tool testing, driving improvement in team production throughput.
- **Performed satellite imagery analysis and geocoding** to update linear and polygonal features across U.S. geographies for Apple Maps production, including serving as a core contributor to the complete

geospatial refresh of the San Francisco metropolitan region — delivered within a 3-month production window in 2017.

- **Worked within an Agile/Scrum development process**, participating in sprint planning, weekly standups, and iterative delivery cycles alongside software engineers and product teams.
- **Developed and executed test cases for Apple's proprietary GIS software**, identifying bugs and verifying fixes to maintain product quality across releases.
- **Designed and executed structured QA/QC frameworks** — including test case development, validation protocols, and data cleansing — maintaining spatial data integrity across high-volume production environments.
- **Led the QA and editorial feedback loop between the GIS production team and Apple's internal software developers**, driving iterative customization of proprietary GIS tools that directly enabled efficient delivery of the Apple production map refresh.
- **Produced analytical reporting on geospatial data** accuracy and performance metrics.

EDUCATION

Master of Science, Geospatial Information Systems (GIS)2020 – 2022

Pennsylvania State University

- Advanced coursework: Geospatial Science, Remote Sensing, Spatial Data Analysis, Cartography, GIS Application Development, Python Programming
- GIS Certificate earned as part of graduate program

Bachelor of Arts, Anthropology (Minor: GIS)2009 – 2014

Humboldt State University

- Three academic awards for excellence in GIS research and spatial analysis

TECHNICAL SKILLS

GIS & Geospatial Platforms: ArcGIS Pro, ArcGIS Desktop, ArcGIS Enterprise, QGIS, Mapbox, CARTO, Leaflet, Atlas

Geospatial Analysis & Geomatics: Boundary Analysis • Cartography • Map Preparation • Remote Sensing • Satellite Imagery Interpretation • Geocoding • Spatial Modeling • Data Interpretation • Geospatial Science Workflows

Programming: Python (2.7 & 3.x): GeoPandas, Shapely, ArcPy, Geemap, OSGeo; SQL

Data Analysis & Visualization: Jupyter Notebook • NumPy • Pandas • Matplotlib • Statistical analysis of geospatial and satellite datasets

Databases & Cloud: PostgreSQL/PostGIS • Oracle • SQL Server (ESRI-enabled) • AWS

Development Methodology: Agile/Scrum • Sprint Planning • Iterative Delivery

Quality & Governance: QA/QC • Test Case Development • Data Validation • Data Integrity Auditing • Workflow Automation