

Christian Haag-Fernandez

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Professional Summary

With a B.A. in Environmental Studies and a career spanning field surveying, environmental data collection, and geospatial analysis, I bring a full life cycle understanding of spatial data, from acquisition to visualization.

My work has evolved from hands-on mapping and surveying to advanced GIS analysis and automation, most recently developing a custom Python-based data pipeline that transforms raw GPS data into interactive spatial insights. I'm now focused on applying these combined experiences to deliver meaningful, data-driven solutions as a GIS Analyst.

Key Skills & Tools

- **GIS & Spatial Analysis:** ArcGIS Pro, QGIS, ArcPy, Arcade, GeoPandas, spatial data management, feature extraction, QA/QC
 - **Programming & Automation:** Python, Pandas, Matplotlib, Folium, Bash scripting, Git, Jupyter Notebook
 - **Data Visualization & Reporting:** Map creation, interactive dashboards, temporal/spatial visualizations, Excel reporting
 - **Surveying & Data Collection:** GPS/GNSS workflows, total station surveying, topographic data processing
 - **Web & Development:** HTML, CSS, JavaScript, Leaflet, web map deployment
 - **Soft Skills:** Analytical problem-solving, documentation, cross-functional collaboration, remote teamwork
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Professional Experience

Park Crew & Event Setup Lead

City of Boulder Parks & Recreation - **Apr 2025 - Oct 2025**

- Support operations of natural and recreational resources
- Communicate safety protocols and provide customer support to park visitors during events
- Assist in routine maintenance of assets, including irrigation systems and public-use facilities

GIS Technician

CACI (Janus Geography Contract) - **Feb 2025 - Apr 2025**

- Utilized ArcGIS Pro geoprocessing tools and Arcade scripts to perform feature digitization, extraction, and analysis for defense-related mapping projects.
- Interpreted satellite imagery and validated spatial data accuracy across large datasets.
- Maintained and edited GIS layers to meet stringent QA/QC and geospatial data standards.
- Collaborated with distributed GIS and imagery teams to ensure data consistency across systems.

Tax Analyst

Avalara – Remote - **May 2022 - Oct 2024**

- Cleaned, validated, and analyzed jurisdictional and spatial datasets using Excel based workflows.
- Delivered clear analytical outputs supporting compliance and internal data accuracy initiatives.
- Managed and resolved high volumes of cases in Salesforce.

Agricultural Resources Parks Technician II

Boulder County - Boulder, CO - **Jan 2022 - May 2022**

- Supported infrastructure and environmental management projects through GIS-based reporting.
- Conducted field data collection and assisted in mapping workflows for project planning and environmental assessments.

Agricultural Resources Technician

City of Boulder - Boulder, CO - Apr 2021 - Dec 2021

- Created maps and spatial visualizations for public engagement and planning reports using ArcGIS and Excel.
- Performed data collection and species identification to support resource management decisions.
- Applied GIS and data visualization tools to communicate environmental findings to stakeholders.

Survey Associate

Tower Engineering Professionals- Jul 2020 - Mar 2021

- Collected and processed spatial data for ALTA and as-built surveys using GPS and total station theodolites.
- Produced precise AutoCAD-based legal descriptions and survey deliverables.
- Ensured survey data accuracy and integration with GIS workflows.

Survey Technician

U.S. Fish and Wildlife Service - Jul 2019 - Jul 2020

- Conducted cadastral and boundary surveys on federal lands to define and maintain land management datasets.
- Processed field data in ArcMap and Trimble Business Center to update official geospatial records.
- Improved field documentation workflows and streamlined survey data retrieval.

Water Quality Lab Analyst

Southeast Environmental Research Center - May 2018 - Jul 2019

- Managed long-term environmental datasets and performed QA/QC for geospatial and temporal analyses.
- Developed comparative visualizations to track water quality trends using ArcGIS and Excel.

Resource Monitoring Technician

National Park Service South Florida/Caribbean Network - May 2017 - May 2018

- Collected and analyzed ecological field data for soil accretion and vegetation studies.
- Created GIS-based maps to visualize post-hurricane wetland changes.
- Authored improved SOPs to standardize data collection and geospatial integration.

Degrees & Certifications

B.A. in Sustainability and the Environment

Florida International University

- Minor in Biology
- Thesis: *Monitoring Water Quality through Algal Community Assemblages*

A.A. in Mechanical Engineering

Miami-Dade College

Google Data Analytics Professional Certificate

Coursera