

Professional Geoscience Experience

Geographic Information Systems (GIS) Analyst Amentum August 2024 to Present

- Supporting SNA International at the Defense POW/MIA Accounting Agency at Joint Base Pearl Harbor – Hickam.
- Creating maps from geospatial databases, historical records, case narratives, field and site sketches, and providing analysis that advances research and field excavations for POW/MIA American service personnel investigations in Southeast Asia.
 - Georeferencing wartime and current day aerial imagery, providing maps and analysis of terrain and infrastructure.
 - Developing tools and automations in ArcGIS Pro and Power Automate using Python and other languages.
- Onboarding GIS users, creating training materials, managing program licensing and access, and assigning tasks.

GIS Manager Knife River Corporation, Northwest Region September 2023 to July 2024

- Designed, developed, and maintained a regional GIS Program through ArcGIS Enterprise and Applications.
 - Created confidential maps, web apps, and datasets for business acquisitions and team specific reports.
 - Maintained datasets and Apple devices for field users mapping infrastructure and environmental permits.
 - Analyzed government and geological datasets to understand mining environments and requirements.
 - Wrote Python, HTML, CSS, and Arcade to create personalized applications, automation, and databases.
 - Trained team members to use GIS while providing technical and project specific support for GIS and Drone users.

Surface Water Management GIS Pierce County, Washington May 2023 to September 2023

- Delineated USGS HUC-16 Watershed Boundaries in ArcGIS Pro by analyzing DEM and surface water flow data.
- Mapped MS4 stormwater infrastructure and surface water flow directions in Field Maps.

Transportation Engineering GIS City of Renton, Washington September 2022 to August 2023

- Lead the Comprehensive Walkway Plan, an effort to provide multimodal transportation. Using ArcMap, ArcGIS Pro, ArcGIS Online, and Google Earth to map present/missing sidewalk structures and conditions. Analyzing community footprints to create a prioritization for sidewalks that need to be created and maintained.
- Mapped Fiber Optic networks and Luminaire structures in ArcGIS, analyzing and visualizing engineering plans. Implementing datasets into daily field maintenance applications, CAD, and city infrastructure records.

Geology Research Assistant University of Hawai'i Hilo February 2022 to May 2022

- Researching tephra deposits on the Big Island, Hawaii for agricultural black cinder, finding prospective quarries in GIS.

Geodetic Crack Team University of Hawai'i Hilo and USGS – HVO August 2020 to May 2022

Education

Master of Science in Geospatial Technologies University of Washington Tacoma 2023

Bachelor of Science in Geology University of Hawai'i Hilo 2022

Associate of Arts in Geology Highline College 2020

Additional Geoscience & Technology Skills

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| HTML, CSS & JavaScript | ArcGIS Pro & ArcMap |
| Mapbox & Leaflet | ArcGIS Arcade Coding |
| JSON & GeoJSON Datasets | ArcGIS Online and Enterprise Systems |
| SQL Databases | Dashboards, StoryMaps, Field Maps, Survey123, Experience Builder, Sites, & Web AppBuilder |
| Python | Adobe Suite Applications |
| PyCharm, Jupyter & Anaconda | Microsoft Suite Applications |
| QGIS and Open-Source Databases | |