

# Sadie Nguyen

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## Geographic Information Systems (GIS) Analyst

Amentum, supporting SNA International, contracting for the Department of Defense (DoD),  
Defense POW/MIA Accounting Agency (DPAA) at Joint Base Pearl Harbor-Hickam, Honolulu, Hawaii

August 2024 to Present

- Specifically supporting efforts in Southeast Asia, Indo-Pacific Directorate from the Hawaii DPAA office.
- Working and traveling with teams located in Asia, Washington DC, and Nebraska to complete tasks.
- Performing GIS research and analysis into the status of missing American service personnel (veterans).
- Creating maps, datasets, and map applications to showcase sites, archaeological surveys, and excavations that occurred in the field. Converting historical records, GNSS/GPS datasets, and interpreting drawn sketches.
- Comparing historical imagery to analyze changes in terrain, culture, and agriculture for field teams.
- Assisting field team members with the use of field tools such as GPS units and Field Maps.

## GIS Manager

Knife River Corporation, Northwest Region (Oregon and Washington State) in Tangent, Oregon

September 2023 to July 2024

- Designing, developing, and maintaining a regional GIS program to support various projects.
  - Creating region-wide standards and user guide for users to understand GIS data management.
  - Creating map applications and datasets to support various team projects.
- Teaching team members to use GIS applications, expanding the number of GIS users, in and out of the field.
  - Collaborating to create a companywide GIS conference in February 2024. This event will consist of new user training, new application use demonstrations, current GIS support, and more.
- Using Smartsheet's to communicate various project status's, share datasets, and additional information.
- Implementing various forms of web services from outside organizations to support our regional analysis.
- Acting as local technical support for GIS users in the region.

## Master of Science in Geospatial Technologies

University of Washington Tacoma

September 2022 to August 2023

- Multi-hazard web map application for the Islands of Hawaii for community hazard preparedness.
- Intro to Geospatial Technology
- Web-Based GIS
- GIS Customization and Automation
- Mobile Geospatial Application Development
- Cartography and Data Visualization
- Environmental Planning Applications

## Surface Water Management GIS Extra Hire

Pierce County, Washington

May 2023 – September 2023

- 📍 Delineating USGS HUC-16 Watershed Boundaries using ArcPro with DEM and flow datasets.
- 📍 Using Field Maps to check flow directions of MS4 stormwater systems.
- 📍 Partnering with WA Department Fish and Wildlife to care for growing baby oysters.

## Transportation Engineering Intern

City of Renton, Washington

September 2022 to August 2023

- 📍 Using GIS to create, maintain, and visualize Public Works, Transportation datasets.
  - 📍 Leading the effort on the Comprehensive Walkway Plan (Missing Sidewalks Project).
  - 📍 Renton School District map showcasing their schools and facility sites.
  - 📍 Mapping Fiber Optic networks and Luminaire structures for maintenance services.
  - 📍 Additional efforts with SANDs, the Transportation Improvement Plan, consultants, and more.
- 📍 Deploying, collecting, and assisting in the training of Remote Permanent Count Systems.

## Bachelor of Science in Geology

University of Hawai'i Hilo

August 2020 to May 2022

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|---------------------------|---------------------------|-------------------------|
| 📍 Surface Water Hydrology | 📍 GIS for Geology         | 📍 Volcanology           |
| 📍 Hawaiian Geology        | 📍 Geological Oceanography | 📍 Sedimentary Processes |
| 📍 Structural Geology      | 📍 Geomorphology           | 📍 Communicating Science |
| 📍 Coastal Geology         | 📍 Mineralogy & Petrology  | 📍 STEM Writing          |

## 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.
  - 📍 Creating, analyzing, visualizing, and organizing data through ArcMap and Microsoft Office applications.

## Crack Team

University of Hawai'i Hilo and the United States Geological Survey (USGS) – Hawaiian Volcano Observatory

August 2020 to May 2022

- 📍 Collecting geodetic data on cracks and vertical deformation throughout Hawai'i Island, starting in the 1960s.
- 📍 Presenting Author for 'Leveling survey of Koa'e Fault System during the 2021 Kilauea dike intrusion' abstract and poster at the 2022 Geological Society of America Joint Cordilleran and Rocky Mountain Section Meeting.
- 📍 Featured on the front page of the Hawaii Tribune Herald, Sunday November 21, 2021, Newspaper.

## CARES Geology Lab Safety Assistant

University of Hawai'i Hilo

August 2020 to May 2022

- 📍 Cleaning and sanitizing classrooms, labs, and additional resources to decrease the spread of COVID-19.

## Geology Laboratory Assistant

University of Hawai'i Hilo

February 2021 to December 2021

- 📍 Redesigned the UH Hilo Geology website to improve community usability and resources.

## Associate of Arts in Geology

Highline College, Washington – Running Start

June 2018 to June 2020

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|---------------------|--------------------------|-------------------------|
| 📍 Seismology        | 📍 Puget Sound Geology    | 📍 Botany                |
| 📍 Physical Geology  | 📍 Puget Sound Landslides | 📍 Environmental Science |
| 📍 Shaping the Earth | 📍 Oceanography           | 📍 Research Writing      |

## Alumni Representative (Volunteering)

University of Hawai'i Hilo and Center for the Study of Active Volcanoes

- 📍 Talking to GIS students about my coursework, work experience, and tips on getting into the GIS world.
- 📍 Attending an elementary school science night to teach younger students and families about Geology.

### Conferences and Trainings

- 📍 WAGISA Conference – Tacoma, Washington – June 2024 – Social Event and Prizes Chair
- 📍 ORURISA & ASPRS GIS In Action Conference – Portland, Oregon – April 2024
- 📍 Esri User Conference – San Diego California – July 2023 – UW Representative
- 📍 WAGISA Conference – Tacoma, Washington – June 2023 – Moderator and Attendee
- 📍 Esri Survey123 Training – Olympia, Washington – February 2023
- 📍 WA ITE Safety Conference – Renton, Washington – November 2022
- 📍 GSA Joint Section Meeting – Las Vegas, Nevada – March 2022 – Presenting Author
- 📍 Imagery in Action – Esri MOOC – November 2023

### Geoscience and Technology Skills

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|--------------------------|----------------------|------------------------------|
| 📍 Microsoft Office Suite | 📍 ArcGIS Online      | 📍 Sites                      |
| 📍 HTML, CSS & JavaScript | 📍 Dashboards         | 📍 ArcGIS Arcade              |
| 📍 JSON & GeoJSON         | 📍 StoryMaps          | 📍 Smartsheets                |
| 📍 Python & PyCharm       | 📍 Field Maps         | 📍 Adobe Applications         |
| 📍 Mapbox & Leaflet       | 📍 Survey123          | 📍 Audio-Visual Equipment     |
| 📍 Anaconda & Jupyter     | 📍 Experience Builder | 📍 Data Collection & Analysis |
| 📍 SQL Databases          | 📍 Web AppBuilder     | 📍 Customer Service           |
| 📍 ArcGIS Pro & ArcMap    |                      |                              |

### More About Me!

- 📍 I'm known for always baking chocolate crinkle cookies and/or garlic and cheese focaccia.
- 📍 I love the ocean, something about the salty blue abyss is home for me. I don't want to live in a landlocked place.
- 📍 I wanted to study Geology because I wanted to know the science behind touching lava.
- 📍 While traveling, I collect map coasters as souvenirs to inspire continuous travel and cartographic creativity.