

# Matthew Kenny

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<https://mattmakesmaps.com>

## Tableau Software, Seattle, WA — Senior Software Engineer

2018 - 2023

- Developed two iterations of Tableau’s connector to Esri ArcGIS Server, allowing users to retrieve data from public and authenticated Esri mapping servers. Technologies included Tableau’s Web Data Connector (WDC) framework (V1) and Custom JDBC-Driver (V2).
- Enabled Offline Maps to be used in Tableau Server, for use in “airgapped” on-premises deployments.
- Developed automated monitoring and alerting infrastructure for external assets used in Maps Team build and test workflow. Primary technologies included AWS lambdas (Python), deployed via terraform.
- Developed automated testing suites for Maps team features including: Esri Connector, Heatmap (Density) marks, Web Mapping Service (WMS) support, Upgrade/Downgrade of Customer workbooks supporting Mapbox Maps.
- As Scrum Master, supported team alignment to overall company release calendar. Represented scrum team to Engineering leadership.
- As On Call engineer, monitored and improved dashboards, logging infrastructure, and runbooks for our globally distributed mapping services. Represented service status to Engineering leadership.
- Numerous ancillary bug fixes related to Maps Team features across Tableau’s C++, Java, and JS code base.

## Tableau Software, Seattle, WA — Senior GIS Data Engineer

2013 - 2018

- Part of the core team that launched an in-house global web mapping service, based primarily on OpenStreetMap data, for use across Tableau's platform. Key challenges included automating ingestion and processing of numerous global-scale datasets, cartographic styling, and label/border localization into a central PostGIS backend.
- Developed Python data processing utilities to combine commercial, open source, and public spatial datasets into a uniform format for deployment in Tableau’s basemap and geocoder.
- Developed an automated data quality testing framework based on the Python nosetest library.
- Created lightweight web applications and internal Flask APIs allow data engineers to QA the quality of in-progress data updates to our main Postgres/PostGIS backend.

## RIDOLFI Inc, Seattle, WA — GIS Analyst

2009 - 2013

- Provided software engineering expertise for Washington Department of

## Skills

Languages: Python | Java | JS | SQL

Tech: PostgreSQL | PostGIS | Terraform | Esri ArcGIS Suite | QGIS | OpenStreetMap

## Presentations (Excerpt)

State of the Map US, 2016  
“From an OSM Way to a Highway Shield”

TechDiversified, 2016  
“GIS and Decision Making”

WAURISA, 2013  
“PntTrax: An Open Source Field Data Collection Tool”

## Education

Arizona State University  
MAS, Geographic Information Systems - 2009

Western Washington University  
BA, Environmental Planning / GIS Minor - 2008

University of Washington  
Certificate in Python Programming, 2012

## Interests

Open Source Software (Geospatial) | Amateur Radio (KI7ZTH) | Woodworking | Bicycling

Natural Resources' Marine Vegetation Atlas web mapping application.

- Wrote automated modeling workflows in Python to flag potentially contaminated sites in Western Washington using a combination of spatial and non-spatial data.
- GIS and database support for Tribal, State, and Federal agencies.
- Maintained an environmental chemical sampling database in Microsoft SQL Server, cataloging sampling histories for dozens of clients.  
Produced automated reports comparing these environmental samples to Tribal, State, and Federal environmental contamination standards.