

# Jeff Underwood

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## Profile

Long time professional in the GIS industry, with stints at several major mapping companies. I have extensive experience designing projects and leading teams in both mapping and ML training data creation and curation. In addition, I have built out tooling and worked on both front and backend dev at various points over my career mainly in aid of my teams' mapping needs. I have a high degree of knowledge of OpenStreetMap but a passion for all things Geo and am excited for my next adventure in the field.

## Experience

**TECHNICAL PROGRAM MANAGER, SNAP INC, SAN FRANCISCO, CA — OCTOBER 2021-SEPTEMBER 2022**

Role was generally in charge of all things related to OpenStreetMap which powers the base map. Designed and shepherded multiple app features requiring cross functional collaboration. Modeled, mapped, and implemented dynamic borders necessary for roll out of Snap Map using solely OSM data. Made numerous enhancements to our backend map stack to allow additional functionality or features. Built out vector tile quality checks using Go language.

**GIS & MAPS QUALITY ANALYST, FACEBOOK, MENLO PARK, CA — JUNE 2018-AUGUST 2021**

Ensured quality of OSM data submitted by a large team of editors using tools such as Presto, PostGIS, QGIS, iD, RapiD, and JOSM. Led AI-assisted road mapping efforts for our onsite editing team and supported five remote vendor teams around the world. Worked directly with engineers to help design and plan new tooling. Planned and executed projects for mapping teams to complete. Represented the World.AI team at multiple remote trainings and conference talks. Supported RapiD design, development, and release. Ensured roll out of Map With AI global road coverage.

**MAPS QUALITY ANALYST, COLLABERA @ FACEBOOK, MENLO PARK, CA — AUGUST 2016-JUNE 2018**

Ensured quality of OSM data submitted by a large team of editors using tools such as PostGIS, QGIS, and JOSM. Helped manage onsite editors at Facebook, providing training, policy guidance, and mentoring to team of 30. Led remote team of 20 map editors in Colorado. Traveled to Indonesia to train new remote team. Developed a custom version of the OSM Tasking Manager to generate stats and serve as a better management tool as well as numerous quality of life improvements. Created various visualizations and maps as needed for presentation to mapping conferences. Assisted in roll out of OSM onto FB maps.

**GIS TECHNICIAN, APEX @ APPLE, SUNNYVALE, CA — JUNE 2015-AUGUST 2016**

Extensive use of open source GIS programs as well as ArcGIS for project work and SQL and Apache Hive. The position had a large focus on quality analysis of current and potential data sources involving both quantitative and qualitative assessments. Helped create and define editing policies for our team's content type. Frequent interfacing with other parts of the company in order to address content specific needs.

**GIS TECHNICIAN, PROUNLIMITED @ APPLE, CUPERTINO, CA — JUNE 2013-DECEMBER 2014**

Worked with open source GIS programs as well as extensive use of SQL and Apache Hive. Analyzed data from large databases utilizing data from multiple vendors. Wrote scripts to help determine quality of potential new data sources.

**VISUAL DATA SPECIALIST, AEROTEK @ GOOGLE, BOTHELL, WA — JANUARY 2011-JANUARY 2013**

Created and curated spatial data for Google Maps. Worked on quality control of both employee and user submitted data.

## Education

Western Washington University, Bellingham, WA — BA in Environmental Studies with a focus on Disaster Reduction and Emergency Planning — 2007 - 2010

## Conference Talks

[State of the Map US 2019 - Machines and Mappers How AI and tooling can assist with OSM Data Integrity](#)

State of the Map Baltic 2020 - Using AI to Map the World with RapiD editor

FB Dev Circles Riga 2020 – Map With AI

[Mapping USA 2021 - Using RapiD to Map Open Data](#)

[Understanding Risk 2021 – Map With AI: Past, Present, And Future](#)

[Nethope 2021 – Mapping with AI and Communities](#)

## Publications

<https://tech.fb.com/artificial-intelligence/2019/07/ai-is-supercharging-the-creation-of-maps-around-the-world/>

<https://tech.fb.com/artificial-intelligence/2020/03/map-with-ai-updates/>

<https://www.openstreetmap.org/user/Jeff%20Underwood/diary/46903>