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## **EDUCATION**

The University of Chicago Law School	Chicago, IL	Law	JD, 2010
Washington University in St. Louis	St. Louis, MO	Computer Science	BS, 2007

## **RESEARCH INTERESTS**

Software engineering and infrastructure, open-source software development, geospatial web application development, data-gathering processes, web development, code, theory of change, business strategy.

## **PROFESSIONAL EXPERIENCE**

The Water Institute	Senior Full-Stack Engineer	2023–Present
Element 84 (previously Azavea, Inc.)	Senior Software Engineer	2023
	Engineering Lead, Geospatial Applications Team	2019–2023
	Senior Software Engineer	2017–2018
Transparency International Georgia	Software Engineer	2013–2017
	Digital Projects Office	2010–2013

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

- Open Law Library, Co-Founder and Board Member, 2015–Present
- Michigan Bar Association

## **AWARDS AND HONORS**

- Lifetime blog-writing award, Element 84

## **COMMUNITY SERVICE**

Pennsylvania Horticultural Society	Tree Tenders	2018–Present
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## **TRAINING COURSES**

- AWS Solutions Architect Associate, 2023

## **NOTABLE PROJECTS**

<b>Project Technical Lead/EnDMC</b> <i>The Water Institute</i> This web-based tool provides a data and model catalog to promote the discoverability, reproducibility, and reuse of existing models.	2024
<b>Initial Project Technical Lead/Wildfire Risk to Communities</b> <i>U.S. Forest Service</i> The tool allows the public to type in community, tribal area, county, or state and view an interactive chart about wildfire risk as well as access resources to reduce risk.	2020
<b>Project Technical Lead/DRIVER</b> <i>World Bank</i> Data for Road Incident Visualization, Evaluation, and Reporting: Developed to help low- and middle-income countries to better collect road crash information for improved road safety support solution.	2019
<b>Software Engineer/Cicero</b> <i>Azavea, Inc.</i> Cicero is a database of elected officials and legislative districts around the world. The tool allows for matching addresses to legislative districts at all levels of government.	2023
<b>Software Engineer/Groundwork</b> <i>Element 84, Inc.</i> Groundwork is a labeling solution for remotely sensed imagery which can be used to generate labels for training machine-learning models.	2023

## **PUBLISHED WORKS**

### **Open-Source Libraries**

Dohler, D. (2023). *GDAL-JS* (2.2.0) [WebAssembly]. <https://github.com/ddohler/gdal-js>

Dohler, D. (2022). *Loam* (1.2.0) [Javascript]. <https://github.com/azavea/loam>

### **Conference Proceedings and Presentations**

Dohler, D. (2021). Handling GeoTIFFs in client-side code with GDAL and Loam. FOSS4G.