# James Conkling

jameslaneconkling.github.io linkedin.com/in/jameslaneconkling github.com/jameslaneconkling

#### **TECHNICAL SKILLS**

**Programming**: JavaScript, Python, R, RDF/Semantic Web, SQL, Flask, React/Redux, Falcor, RxJS, LevelDB, Postgres **GIS**: qGIS, Web Cartography, OpenStreetMap APIs, MapBox-GL, PostGIS

### **PROJECTS**

Rivium rivium.io

A data discovery platform for analyzing loosely structured data. The application leverages the semantic web RDF data model, and is built out across a number of backend Spring Boot microservices. Client architecture leans heavily on Falcor, RxJS, and React/Redux.

# OpenStreetMap Logging Roads

loaainaroads.or

A platform to crowdsource citizen monitoring of rainforest logging activities. Collectively mapped over 3000 km of logging roads, identifying instances of illegal logging. The project won the 2015 **Eye on Earth Data Innovation Showcase**.

- Designed the web client for in-browser analysis of satellite imagery and project editing statistics
- Deployed custom rebuilds of the OSM iD Editor and Humanitarian OpenStreetMap Team's Tasking Manager applications
- Oversaw project management with partners in Washington DC, LA, and the DR Congo, leading five user training sessions

Moabi DRC rdc.moabi.org

An open-source geodata management platform based on OpenStreetMap for forest monitoring in the Congo Rainforest

- Built the site front end using leaflet.js for web map visualization alongside the Jekyll static-templating framework
- Oversaw a growing team of project partners and consultants, and led project trainings in the DR Congo and across the US

#### **EXPERIENCE**

## Berico Technologies Software Engineer, 2015 - present

Built web platforms to manage large, loosely structured datasets for government and private sector multi-year contracts.

- **Rivium**: Led front-end development, including team, focusing on web cartography and semantic tools. Led front-end effort to port the app from Ember to React: *rivium.io* 

# CrowdCover Developer - Project Coordinator, 2015 | Cartography Lead, 2013 - 2014

Developed open source geographic data management platforms for forest governance in the Democratic Republic of the Congo. Built out the project's web-based monitoring platform and directly managed projects from inception through to completion.

- Moabi DRC: Headed web development, cartography, and research and strategy: rdc.moabi.org/en/
- OSM Logging Roads: Led web development and strategy in partnership with the World Resource Institute: loggingroads.org
- **CongoMines**: Managed the build-out of the *Carter Center's CongoMines* web platform, including team recruitment, database design, client management, and front-end development: *www.congomines.org*

# Independent GeoSpatial Consultant 2012 - 2014

Consulted on web development, data analysis, research, project management, and cartography with clients and partners.

- **World Bank:** Lead developer of the web-based geodata visualization platform for natural resource governance, managing research teams on both the Dem. Republic of the Congo and Afghanistan
- GroundTruth Initiative: Cartography and data analysis for the MapKibera and Kibera Open Schools projects
- **The Woodrow Wilson Center**: Web development, data analysis and visualization on two published and widely-cited projects on Chinese energy and natural resource management policy
- Amnesty International USA, Science for Human Rights Fellow: Research and data analysis on International Human Rights law and humanitarian monitoring projects

### **EDUCATION**