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James Conkling

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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   *loggingroads.org*

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

HackReactor | Advanced Software Engineering Immersive – *2015*   San Francisco, CA
Middlebury College | Political Science/Sociology, 3.58 *cum laude* GPA *2006 - 2010*   Middlebury, VT
Hyderabad Central University | 3.83 GPA *2009*   Hyderabad, India