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James Conkling

jameslaneconkling.github.io
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TECHNICAL SKILLS

Proficient: JavaScript/Node.js, BackboneJS, Express, Web Cartography, D3, Jekyll, SQL (Postgres/PostGIS), qGIS, HTML/CSS
Experienced: Python, Flask, RxJS, Socket.io, R, BookshelfJS, MongoDB, Adobe Creative Suite, OpenStreetMap APIs

PROJECTS

Open Media Dashboard
github.com/media-dashboard

A set of visualization tools and server infrastructure to analyze media event datasets from the GDELT, Phoenix and ACLED projects
- Built a Backbone-D3 front-end module to efficiently visualize large graph database queries
- Used Immutable.js to record changes in graph state, allowing users to undo/redo edits to the dataset

ImFree | Social Vending Machine of the Future
github.com/ImFreeApp

A highly scalable, SOE platform to detect latent communities-of-interest based on a user's social media footprints
- Designed the platform's Express-Mongoose User Services backend API, using a flexible schema to store social media data
- Deployed a Natural Language Processing API using Flask and Python NLTK library to analyze user's social media presence
- Constructed the Backbone client with single-page, scroll-based navigation and a flexible Gulp/Browserify asset pipeline

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 is shortlisted as one of 3 finalists for the **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

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, strategy in partnership with the *World Resource Institute: loggingroads.org*
- **CongoMines**: Managed a subtantial 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:** Built a web-based geodata visualization platform on transparency and natural resource governance in conflict-ridden and fragile states, managing the research teams on both the Dem. Republic of the Congo and Afghanistan
- **GroundTruth Initiative**: Designed cartography and wrangled with data for the *MapKibera* and *Kibera Open Schools* projects
- **The Woodrow Wilson Center**: Managed 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**: Researched and conducted data analysis for Intl. 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