Allmaps Blacklight Plugin

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FROM

Eric Larson

ewlarson@gmail.com

4917 Nicollet Avenue
Minneapolis, Minnesota, 55419
United States

TO

Ian Spangler

ispangler@leventhalmap.org

gnelson@leventhalmap.org

srappel@uwm.edu

Leventhal Map & Education Center at the Boston Public
Library
Central Library in Copley Square
700 Boylston Street | Boston, MA 02116

Context and Objectives

Eric Larson is a web architect, user-experience analyst, and senior web application developer with over 17 years experience building increasingly complex web-based tools and services within academia and for private enterprise. In order to help the Leventhal Map & Education Center develop an Allmaps plugin for Blacklight-based applications, the LMEC will hire Eric to provide his expertise in Blacklight, GeoBlacklight, and Ruby on Rails development.

The goal of this work is to help the LMEC:

1. Write a custom Allmaps plugin for Blacklight applications
2. Publish a stable Ruby gem with thorough documentation for Allmaps integration in Blacklight-based web applications

To achieve those objectives, the LMEC will be in charge of:

- Maintaining a GitHub repository to track source code, collect issues, and prioritize development tasks
- Scheduling all necessary project kickoff, progress, and deliverable handoff meetings
- Providing communication and feedback with Eric regarding priorities and issues

To achieve those objectives, Eric will be in charge of:

- Providing communication and feedback with LMEC and project stakeholders
- Contributing web application development expertise
- Attending all project meetings

Timeline

The proposed timeline for this project is split into 2 phases, totaling 2 weeks and 3 days.

Phase 1 (3 days): Project Start
This phase includes: Creating the project's GitHub Repository, drafting the initial Ruby on Rails plugin/engine, configuring GitHub Actions for continuous integration testing, attending the kickoff meeting, doing a code review of LMEC's prior art, building out project dependencies and rake tasks for development and test environments.

Phase 2 (7 days): Feature Build-Out and Community Testing
This phase includes: Writing the features detailed in the LMEC project scope document: Adding an Allmaps button to the item view page, adding a map overlay for Leaflet or OpenLayers, and enabling the ability to search/filter by georeferenced maps. I will test the plugin installation against Blacklight v7 and v8 and GeoBlacklight v4 applications. This phase will conclude with a draft plugin for community feedback and testing.

Phase 3 (2.5 days): Documentation, Code Review, and Ruby Gem Publication
This phase includes: Writing thorough documentation on the installation process for adopters. Ensuring license, copyright, and attribution files are accurate. The handoff meeting will be a code review of the plugin and a demonstration of the features developed during the sprint, followed by a release of the code on Rubygems.org.

Fee Summary

Allmaps Blacklight Plugin Code Sprint $10,000

Lead the development of a Ruby gem for Allmaps integration into Blacklight-based applications.

ITEMS	QTY	PRICE	TOTAL
Web Application Development	100	$100	$10,000

	Total	$10,000

Additional Consultation Services

Online or in-person meeting time, GitHub or email correspondence, and additional services to facilitate out-of-contract meetings or out-of-schedule sprint development work will be tracked by the hour and charged at a flat rate of $100.00 per hour. Client will be forewarned and notified prior to developer participation in non-contracted hourly-fee work.

In addition to the service packages listed in the "Fee Summary", additional services can be provided including:

- Web application development
- Issue troubleshooting and debugging
- Blacklight/GeoBlacklight development training sessions
- UX and accessibility evaluations
- Web design and maintenance

Why Me

As a web application developer for over 17 years, I have designed many responsive websites and built numerous complex web applications. I have extensive open source software experience. I am a core contributor to the GeoBlacklight project (as @ewlarson), and have worked as the Lead Developer for the BTAA Geoportal for the last five years. I am also the Co-Founder of Gimlet, an online software-as-a-service platform used by over 775 libraries internationally.

I am an expert at Ruby on Rails development, Ruby programming, Apache Solr, Elasticsearch, Blacklight/GeoBlacklight, CSS/SCSS and JavaScript development. I love using tools like Highcharts, D3, and Leaflet to efficiently visualize data.

I have completed GeoBlacklight consulting contracts for the Big Ten Academic Alliance / University of Minnesota, Johns Hopkins University, New York University, University of Massachusetts-Amherst, University of Wisconsin-Madison and University of Wisconsin-Milwaukee. I am also a Technical Advisor to the Place Project, via the Healthy Regions & Policies (HEROP) Lab at the University of Illinois. References available upon request.

Lastly, I am a proud librarian: University of Wisconsin-Madison's School of Library and Information Studies, Master of Library and Information Studies.

For additional information regarding my professional background, please visit my LinkedIn profile.