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TECHNOLOGIES

PREFERRED LANGUAGES

Ruby
JavaScript/CoffeeScript
Haskell

FRAMEWORKS

Rails (versions 2, 3, and 4)
Sinatra
D3
AngularJS
EmberJS

TESTING

MiniTest
RSpec
Cucumber
Jasmine
HUnit

DATABASES

MySQL
PostgreSQL
MongoDB
InfluxDB
TempoDB

OTHER SOFTWARE

SPSS Statistics
MapInfo (GIS)
Adobe Creative Suite

EDUCATION

CORNELL UNIVERSITY
Dept of Architecture
2002 - 2007

Zachary Kemp

RECENT WORK EXPERIENCE

CONSULTANT, Zachary Kemp, LLC

SAN FRANCISCO, CALIFORNIA | 2014 - PRESENT

Independent contractor specializing in data visualization-related Rails applications.

SciView (core team member, June - November 2014): An interactive sensor data analysis dashboard written in Rails and Angular. Major accomplishments include building a flexible database adapter module to swap different time-series data stores (TempoDB, InfluxDB, etc), an interactive D3 charting library integrated into the Angular application, a staged data loading strategy that enabled fast overviews of large datasets.

DeliRadio (contractor, August - September 2014): An indie music-discovery startup. Prototyped a new user sign-up and authentication flow as part of a planned partnership with another company.

ICON Interactive (contractor, July 2014): A digital agency with a legacy Rails 2 application. Added several new features and tuned performance (10x speedup on many routes).

WolfBrown (technical lead, July 2014 - present): Continuing work started as a full-time employee on the IntrinsicImpact and CultureLab projects (see below).

MANAGER OF DIGITAL ASSETS, WolfBrown

SAN FRANCISCO, CALIFORNIA | 2010 - 2014

As the sole developer at this small but influential arts consulting firm, I performed full-stack dev-ops work on numerous websites, including two large greenfield projects:

IntrinsicImpact Dashboard (2012 - present): A site for reporting, exploring, and analyzing audience survey data for performing arts organizations. Backed by decades of cumulative experience in arts-related consulting, the IntrinsicImpact dashboard enabled WolfBrown to sell consulting services to a much wider range of clients at a much lower cost, and spurred the creation of a new business unit devoted solely to its expansion. Major technical achievements include a fast and extensible map-reduce module, a purpose-built expression language for sanitizing administrator inputs (github.com/zv Kemp/sorabji), connections to numerous external data sources, and a custom charting library (initially written in Ruby, and later ported to D3).

CultureLab Library (2010 - present): Initially developed as a private archive to share intellectual property between WolfBrown's consultants nationwide, the CultureLab Library has grown into a social knowledge-sharing platform used by students, consultants, arts administrators, and practitioners. With a flexible and extensible metadata database, fine-grained permissions control, and an intuitive interface, the library is adaptable to a large variety of use cases.

In addition to software development work, I acted as WolfBrown's print designer for several major publications, engaged clients in audience data collection, and edited the monthly newsletter.

Neither the IntrinsicImpact dashboard nor the CultureLab Library is available to the general public at this time. Please contact me for a walkthrough.

RELEVANT VOLUNTEER WORK

RailsBridge (2014 - present): I have taught several Ruby and JavaScript classes at a variety of levels, and am comfortable modifying the curriculum to suit students' particular goals.

WorldReader.org (2014): Helped to streamline the deployment of an existing Rails application, added new features, refactored existing code, and fixed bugs.