

# Keith Hanson

## Ruby Web Developer

I am a web application developer that eats Ruby code for breakfast, lunch, dinner, and makes a snack of it around midnight. I'll also take a side of scalability, thanks much. I have a passion for getting things done and making the impossible happen. My expertise is in alternative database technologies (Key/Value Stores, document stores, etc) as well as using the cloud to scale on demand.

## Latest Work

### TweetingTooHard.com

TweetingTooHard is a twitter-based application running on Sinatra, Tokyo Tyrant, and Thin. The server is a low-cost VPS (\$40/month, 1GB RAM) and has handled spikes of 60K unique visits per day. Featured in Time.com, Wired Magazine, and numerous other social media blogs.

### Neoplat LLC - Information Terrain Visualizer (Private Application)

Tasked with building a military prototype for visualizing feeds of news analyses. Custom Analysis methods were created using various streams of input (RSS, Technorati, Twitter, Factiva), and provided users with sentiment analysis, keyword trending, and word clouds. Full text indexing via Lucene allowed full-text searching. jQuery intensive user interface. Flot was used for graphing trends and statistics. Runs on Sinatra, Redis, and Thin.

### Core-apps, LLC - iPhone REST-Accessible Database

Core-apps, LLC required a web-based REST interface for accessing information from an iPhone conference application. The iPhone application would ask the server for versions of the database, in the form of a JSON dump. Every time data was committed to the database, a new version was created, and new JSON files were created. Utilizing custom CouchDB queries, I was able to achieve full dumps of relationships and data of 80,000 records in under 30 seconds on commodity hardware. Because of this, Core-apps iPhone applications were able to easily consume data while having a reliable and speedy database backing it.

### Highform, Inc. - FindMyText.com

College textbook comparison service. A custom jQuery autocomplete search box was created to allow students to search their class names by either the abbreviation or the full course name, as well as narrow down by course number and section. Thousands of courses are instantly available in this intuitive manner, with no background AJAX. Custom web-crawlers were created to pull in course information from various university websites. Amazon EC2 Cloud Computing was utilized to expand performance on demand. Background processing via Starling & Workling for retrieving prices from various external services (XML, JSON, REST). Utilized Rails, Tokyo Tyrant, Thin.

## Expertise

Ruby	MySQL / PostgreSQL	Unix / OSX
Ruby on Rails	Tokyo Tyrant	Server Monitoring/Deployments
Sinatra	Redis	Amazon EC2 Cloud Computing
AJAX / jQuery	MongoMapper	Distributed / Background Processing

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