{Mark: Cahill}

Software Engineer and API Aficionado

hello@thinkjson.com | @thinkjson | github.com/thinkjson

Experience

Highwinds, Software Engineer
2013-Present
- Building a full-featured public API for managing configuration and purging content from the CDN, as well as exposing services like assessing network performance from our edges worldwide to the customer's origin
- Working with a stellar team of engineers to develop a web interface to the CDN with an AngularJS frontend and PHP backend which is replacing an aging Flex and Java web stack
- Utilizing service-oriented architecture to interact with the CDN and its components
- Building instrumentation to track application status in real time with statsd and New Relic

YouVersion, Data Analyst and Developer
2011-2013
- Extended the telemetry system I developed at Analytical Labs to capture mobile telemetry data, and wrote backends for a variety of data storage mechanisms
- Developed a self-service business intelligence application that interfaced with BigQuery and enforced row-level multitenancy, allowing Bible societies to access usage data on their content
- Developed and maintained a scalable analytics infrastructure on Node.js, Hadoop, and BigQuery that allowed us to analyze 100 billion requests per year

Analytical Labs, Contributor
2010 – 2011
- Developed a distributed telemetry system for capturing exceptions and crash information
- Worked with the user interface team in creating a rich web interface to the Saiku open source analysis tool on Backbone.js and HTML5 that loaded in 300ms

Stetson University, Development Operations Coordinator
2006 – 2011
- Developed a self-service business intelligence and workflow management application that streamlined data access and made the division more agile
- Maintained a MySQL data warehouse
- Coordinated data mining, statistical analysis, and multivariate regression predictive analysis
- Managed a team of 30 student callers in a fundraising call center, as well as ran the direct mail program

Education

B.S. Computer Science
Stetson University
Partially complete

B.A. Communication
Palm Beach Atlantic University
Fall 2004

Skills

Programming languages
Python, PHP, JavaScript, C and C++

Frontend technologies
AngularJS, Backbone.js, Underscore.js, HTML5, CSS

Database and cache technologies
MySQL, PostgreSQL, BigQuery, CouchDB, Redis, Memcached

Web application frameworks
Django, webapp2, Node.js, CodeIgniter, Slim

Projects

Redbox mashup
movies.thinkjson.com
Combines data from the Redbox API with data from the Open Movie Database to show you quality movies in Redbox kiosks within 10 miles of your zip code. It arranges the movies by score, which is an aggregate of IMDB customer ratings and Rotten Tomatoes scores, displaying links to each movie where you can reserve it in the kiosk located closest to you.

node-telemetry
github.com/OSBI/node-telemetry
The goal of node-telemetry is to make it really easy to deploy a scalable telemetry server in a clustered environment. This can be used to capture errors, performance data, and more from your web and mobile applications, and store it in a document store or on the filesystem.

Valitron
github.com/vlucas/valitron
Valitron is a simple, minimal and elegant stand-alone validation library for PHP. Valitron uses simple, straightforward validation methods with a focus on readable and concise syntax. I've contributed several improvements to the library, such as iterative validation of array values.