

# {Mark: Cahill}

## Software Engineering Manager and API Aficionado

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### Experience

#### Highwinds, now StackPath

##### Application Development Manager

2015-Present

- Coordinated a **recruitment pipeline** that allowed me to hire 6 engineers in 3 months
- Developed a **mentoring program** that enabled 3 junior developers to be contributing members of the team within 3 months
- Wrote a **software engineering dashboard** to track project status and priority, show trends in developer productivity, and identify bottlenecks and blockers in the software engineering pipeline

#### Software Engineer, Team Lead

2014

- Wrote a plugin for pure-ftpd in **Python** that implemented single sign-on against our public API

#### Software Engineer

2013-Present

- Built a full-featured public **API in PHP** 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
- Worked on a team of engineers that developed an **AngularJS single-page application** that utilized the public API, and replaced an aging Flex application
- Utilized **service-oriented architecture** to interact with the CDN and its components

#### YouVersion

##### Data Analyst and Developer

2011-2013

- Extended the **Node.js telemetry system** I developed at Analytical Labs (an open source project) to capture mobile telemetry data, and wrote a variety of backends
- Developed a self-service business intelligence application in **JavaScript and Python** that **integrated with BigQuery** and enforced row-level multitenancy, allowing customers to access their usage data
- Developed and maintained a scalable analytics infrastructure on **Node.js, Hadoop, and BigQuery** that allowed us to analyze 100 billion requests per year
- Wrote a number of shell processing applications in **C, C++, and Python** that were executed both in batch processing on the command line, as well as in a **Hadoop job**

### Skills

#### Backend technologies

Python, PHP, Node.js

#### Frontend technologies

AngularJS, HTML5, CSS, LESS

#### Database and cache technologies

BigQuery, MySQL, PostgreSQL, CouchDB, Redis, Memcached

#### Web application frameworks

Django, Flask, webapp2, Slim

### Education

#### B.S. Computer Science

Stetson University

Partially complete

#### B.A. Communication

Palm Beach Atlantic University

Fall 2004

### Open Source Projects

#### 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.

#### Redbox mashup

github.com/thinkjson/redbox-mashup

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.