

{Mark: Cahill}

Staff Software Engineer and API Aficionado

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

Experience

Indigo

Staff Software Engineer

2021-Present

- Delivered several high impact features in our **Python** backend service
- Played a pivotal role in the design and execution of load tendering, which enabled us to capture emergent carrier networks in code, leading to increased carrier engagement
- Led the effort to modernize our storage of application secrets in support of SOX compliance

iHeartMedia

Senior Software Engineer

2018-2021

- Led a team of engineers in refactoring a Python form post application into an isomorphic **React** single-page application, visible at z100.com
- Helped develop a **GraphQL** API gateway for our public-facing microservices using Apollo, used by our mobile and auto clients and iheart.com
- Contributed to our layer 7 load balancer written in **Go**, used to route traffic in-farm on our edge compute platform, built on Kubernetes
- Developed a content auto-tagging system using Google's Natural Language API that allows us to associate keywords with an article and suggest other related content
- Assisted in the development of an enterprise-grade content management platform that allows us to syndicate content across multiple web properties similar to the Associated Press

StackPath, formerly Highwinds

Application Development Manager

2017-2018

- Managed an integration project that combined best in breed technology from MaxCDN, Highwinds, and StackPath
- Developed a training program for new hires that allowed junior developers to get up to speed quickly, and contribute code that ran in production within their first month

Highwinds

Software Engineer, Team Lead

2013-2017

- Built a fully-featured public API for managing configuration and purging content from the CDN, used by Microsoft, Valve, and Giphy
- Exposed a service that analyzed network performance from our CDN edge nodes worldwide to our customer's origins, used to develop advanced shielding topologies
- Developed a single-page application that utilized our public API, ensuring first-class support for API integrators
- Built a test harness for both the UI and the API that allowed us to replace a legacy flex application in a test-driven way to ensure API backwards compatibility

YouVersion

Data Analyst and Developer

2011-2013

- Developed a petabyte-scale analytics pipeline on Node.js, Hadoop, and **BigQuery** that allowed us to analyze 100 billion requests per year

Education

B.S. Computer Science

Stetson University

Partially complete

B.A. Communication

Palm Beach Atlantic University

Fall 2004

Open Source Contributions

node-telemetry

OSBI/node-telemetry

I built node-telemetry with the goal of making it easy to deploy a scalable telemetry server to capture errors, performance data, and more from web and mobile applications, and store it in a document store or on the filesystem. This was used at YouVersion to capture event and user flow data from over 120 million mobile devices.

Node.js

nodejs/node

Early in Node.js' history I helped port system calls in libuv from POSIX to Win32 API, allowing Node.js to run with native performance on Windows.