David Souther

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Technical Skills

Like: ecmascript-harmony, jefri, unix, angularjs, testing, rupert

Dislike: ember.js, ruby-on-rails, spaghetti, require.js

Experience

Software Architect (Consultant) – Third Cat, LLC *June 2014 - Current*
node.js, socket.io, redis, angularjs

Owner and Founder, Third Cat LLC. A consulting firm specializing in Javascript technologies, including Node.js backend and AngularJS frontend solutions. Clients include Data Online, a manufacturing firm in New Jersey, where we architected and built a scalable, real-time monitoring platform for various client consumables, and trained the team in building Single Page Applications (SPAs) with AngularJS. We provide ongoing on-site training for new developers on the MEAN stack platform. Projects include work with DartmouthX, providing visualizations for an online engineering course.

Software Architect – Novus Partners Inc *October 2013 - June 2014*
angularjs, node.js, gruntjs, scala

As head of Front End Development at Novus Partners, I lead a team of four developers (including myself) in a complete front-end rewrite. Our previous platform was a brittle Scala Server Pages implementation. After releasing this rewrite, our slick & fast AngularJS frontend has become decoupled from the Scala backend, allowing both services to become much more focused and performant. We also build and maintain the NVD3 open-source charting library. I have led an ongoing effort to refactor the original prototype codebase into a maintainable, extensible, and testable library that will serve front-end charting for years to come.

Software Engineer – The New York Times *July 2012 - October 2013*
nodejs, coffeescript, git

Full-stack developer of the NYT5 rebuild team, rebuilding the nytimes.com property from the ground up. The core online presence of the New York Times handles 45 million unique monthly visitors. Core member of the Prorotype team, building and testing potential new features for the proto.nytimes.com domain. Responsible for the backend stack, including Node servers for data management and AB testing, as well as a variety of systems administration to handle our traffic. Invited to speak on emerging technologies to internal development groups, as well as on behalf of the Times at regional college tech events and tech meetups. Internal git guru.

Software Engineer – Potomac Fusion, inc *September 2011 - June 2012*
java, javascript, owf, synapse

After a week at PFI, I was asked to join a new internal team developing PFI's core data handling framework. Synapse is a tool in the Government Open Source Software realm designed to bring large-scale data handling and visualization to the browser. Our technology handles tens to hundreds of thousands of records shared between discreet OWF widgets, small iframe applications in a shared web desktop. These widgets provide a range of visualizations and tools for intelligence analysts to make the most use of the disparate data sources streaming in from the modern threat space, enabling them to make decisions that save lives of both military troops and civilians around the world.

Education

B.S. Computer Science – Rocky Mountain College *2006 - 2011*

Earned two Bachelors of Science (Computer Science, Mathematics) in five years. Worked on several software development projects with other students in the CS department, including tools to help computational biology research students perform genome analysis on Rocky's local computing cluster.

B.S. Mathematics – Rocky Mountain College *2007 - 2011*

Tutored for three years. Brought a group of math majors together for regular study sessions, helping all of us work through not just our homework, but the big ideas on topics from philosophy to religion to science, and how they fit together with the material we studied.

Projects & Interests

Stack Overflow – http://stackoverflow.com/users/240358 *December 2009 - Current*
Written 120 answers. Active in javascript, node.js, debugging, gruntjs, php and 6 other tags.

GitHub - rupert – https://github.com/RupertJS/rupert *September 2014 - February 2015*
coffeescript
MEAN Stack server toolkit.

The result of two years frustration with copy/pasting Gruntfiles and Express configurations between projects, Rupert is a friendly MEAN / SPA framework. Rupert allows teams to quickly and efficiently set up front-edge applications, giving developers the time to focus on implementing business requirements.

GitHub - flipflops — https://github.com/DavidSouther/flipflops *June 2014 - November 2014*
coffeescript, angularjs, express

Quit Blogging. Go to the beach.

FlipFlops is a SinglePageApplication (SPA) Static Site Generator. Write and maintain both page and post content in a static folder structure, before serving that content as a SPA, providing many benefits for speed, functionality, and offline reading.

GitHub - angular.js — https://github.com/angular/angular.js *January 2010 - February 2015*

HTML enhanced for web apps

GitHub - stassets — https://github.com/RupertJS/stassets *June 2014 - February 2015*
coffeescript, express

Static Asset Compiler using David's Rules

An express middleware to manage realtime updates and building client code. Rather than explicit build steps, stassets lives in the server to return prerendered code on the fly. From a practical standpoint, massively increases development speed.

GitHub - JEFRi — https://github.com/DavidSouther/JEFRi *April 2012 - December 2012*
javascript, jefri, jquery, underscore

The JSON Entity Framework Runtime

Benevolent Dictator. JEFRi is the tool I have always wanted and needed for rapid application development. If I'd had it for the projects I built it for, they would have taken half the time to build, so we could have added twice the features.

GitHub - sns — https://github.com/DavidSouther/sns *April 2013 - February 2014*

Stellar Naval Simulator

Writing

Coding Standards — http://davidsouther.com/2011/08/coding-standards/

Coding standards are a Good Thing™. When working in a team it is critically important to be able to read code written by other developers, immediately understand what is…

Software Craftsmanship — http://davidsouther.com/2011/08/software-craftsmanship/

I'm writing a book!

I have a degree in computer science, but that's really not what I do. I am a software craftsman, which focuses on a rather different aspect of computers and programming than what most computer science degrees offer.

Cucumber Selenium Mappings Model — http://davidsouther.com/#/posts/2014/01/27/cucumber-selenium-mappings-model/

An approach to implement a ubiquitous language for a software project directly embedded in feature tests.

Song Flux — Medium — https://medium.com/@davidsouther/song-flux-e1f9786579f6

Elegantly Fluxing the Angular Way. Using the architecture and design principles of Flux to improve Angular applications. Includes examples, thoughts, and theory.

Tools

First Computer: Generic 386
Favorite Editor: atom w/ vim bindings