

Full Stack

- **Frontend:** Deep Javascript and DOM knowledge. Browser automation and web scraping.
- **Backend:** Python, Ruby, Node, Java, Redis, Elasticsearch, various SQLs.
- **Devops:** Ansible, AWS, Softlayer. Bash, tmux, vim, sed, etc. Most familiar with Ubuntu.
- **Project Management:** Kanban, User Stories, Test Driven Development.

I'm a generalist developer who has mostly worked on database-driven web applications. I've seen the many benefits of comprehensive automated testing firsthand, and I have a little project management experience. I'm open to all kinds of work similar to what I've done so far, and I would love to work with a team of smart, motivated people on interesting problems.

Front End

- I'm effective with the native DOM API, as well as with Underscore, jQuery, and Backbone / Marionette / Spine.
- I'm experienced with the fundamentals of Ecommerce: tracking users through funnels, performing A/B tests, integrating third-party services cleanly using event pub/sub systems.
- I have two years' regular experience unit-testing front-end JS with Jasmine and Mocha, in mock-browser environments built with Node and JSDom.
- I used Webdriver to write an API for interacting with a client's CRM offering, in order to write integration test cases faster and more reliably. I've also worked with the Gherkin domain-specific language to firmly tie integration test cases to product requirements.
- I've built a few demo projects using modern, React-style "bind-a-hash-to-a-HTML-template-and-surgically-update-the-dom-to-match-the-shadow-dom" libraries, namely Vue (js) and Om (cljs).

Back End

- Python (flask), Ruby (sinatra, sequel, rails, rspec, cucumber), Java (webdriver), Node.js (mocha, express)
- I've integrated a client's PHP/MySQL application with ElasticSearch, using a combination of scheduled bulk-insert queries and lifecycle hooks in their model classes.
- I've used Redis to cache the results of expensive operations and perform fast set arithmetic.

Dev Ops

- I'm very comfortable in bash, and I prefer to use it for all of my day-to-day programming.
- I've reverse-engineered a mature product to write an Ansible playbook with many distinct server roles, and used it to perform coordinated builds and updates in the cloud.
- I'm familiar with Vagrant and often use it to create isolated project-specific development environments that still allow me to use the tools installed on my host machine.

Project Management

- I've had good results with test driven development (TDD), Kanban, and meetings with clients that emphasize developing a consistent, shared vocabulary.
- I have about four years' experience test-covering and refactoring legacy software.

Senior Developer, CTK / Social Solutions, 11/2014 - 2/2016

In a department comprised of developers with nontraditional backgrounds, I advocated best practices, researched and demoed new technologies, and built new product features in Javascript and PHP 5.

Automated Testing

- Implemented automated tests over a product that previously had none, shaving tens of hours off the QA process.
- Overhauled a previous JUnit-based attempt to write automated tests, resulting in a Java API for interacting with the CRM, allowing for quick, high-level development of new test cases in Groovy and rapid prototyping using an interactive Groovy console.

Dev Ops

- Reverse-engineered the client's web and database servers to create an Ansible playbook, which I used to build and update new production servers in the cloud, as well as dev and staging environments on the company's own hardware.
- Implemented Elasticsearch indexing of data in the company's MySQL databases.
- Administered clusters of MySQL databases making use of replication, writing ad hoc queries to diagnose bugs and repair scripts to clean up after them.

Developer, Acumen Brands, 2/2013 – 10/2014

- Participated in a departmental culture oriented toward learning and professional growth, involving peer code reviews, regular pair programming, and a book club.
- Implemented automated tests (implementation and unit) over a complex legacy storefront application built using Ruby on Rails.
- Created and maintained a mock browser environment for running Jasmine unit tests in Node.
- Helped design and implement a user behavior analytics system that dramatically increased the conversion rates of email campaigns.
- Overhauled the catalog navigation system of a high-traffic, consumer-facing store, notably increasing conversion by making products easier to discover.

Developer, Various, 6/2008 – 2/2013

- Worked for Deloitte, Xtiva, Onelogos, and Harvest Investment Strategies.
- Maintained and eventually replaced an in-house application for monitoring the stock market.
- Worked on a web application for consumer credit analysis, establishing automated tests and resolving rendering problems and browser compatibility issues prior to launch.
- Created custom UI and database components for Liferay Portal implementations, using Java EE / Spring / JSP.
- Created SQL databases in SAP for clients in the aerospace manufacturing industry.
- Created web interfaces (forms and reports) with ABAP back ends. (ABAP is SAP's proprietary language, similar to PL/SQL and TSQL.)
- Wrote a free and open source Wikipedia analytics application using Backbone.js.

Education

- University of Tulsa: B.S. in Information Systems, 2004-2008
- Focused on Computer Science, Project Management, and Digital Forensics.