

Tobias S. Davis

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PHILOSOPHY:

- I care about code being simple, and I care about quality.
- I want the UX to be carefully designed, beautiful, and maintainable.
- I am passionate about learning, and about making useful things.

PROFESSIONAL EXPERIENCE:

Software Engineer

From Now On (Omaha, NE): September 2016-Current

- Designing and maintaining client-facing webapp interfaces for a content-management system.
- Architecture-level design, and continued maintenance of various servers and services.
- Inherited a large and mostly untested code base, introducing automated testing on pull requests, linting code as part of the test suite, and code styles which lowered regression issues and bug counts.
- Building and maintaining API services that interface with third-party services, cleaning and normalizing inconsistent data.
- As a full-stack engineer in a small startup company, I do sys-ops level work, creating and maintaining systems in the Azure and AWS environments.
- Currently the lead webapp engineer and lead JavaScript engineer.
- Currently balancing my workload between building new features and migrating old, buggy code in a safe and tested manner.

Software Engineer

eDataSource (New York, NY 10001): May 2012-September 2016

- Designed custom document parsing software to pull out and aggregate data from third-party emails.
- Regularly work with MySQL database tables containing millions of rows, writing efficient queries to QA the data and to generate custom reports for clients.
- Have written many large pieces for several websites, both business applications and user facing, primarily with AngularJS and Bootstrap.
- Personally responsible for two major upgrades of third-party libraries (Bootstrap 2.2 => 3.3, and AngularJS 1.1 => 1.3).
- Designed the layout and full UI for a new website section which helps clients test email campaigns prior to sending them to users.
- With a team of 2-4, redesigned the website and server for Boxbe, a site serving over a million active users, and visited by thousands of unique visitors per day.
- Implemented and wrote code for client and server side of OAuth flow for Google, Yahoo, and Microsoft/Outlook, along with a careful test suite.
- With a team of 3-6, designed a new website section using several graphs and difficult queries, which helps our clients compare email delivery parameters for several brands (e.g. Walmart vs Best Buy).

Prior to Software

Omaha Public Power District, Nuclear Facility (Fort Calhoun, NE): May 2011-December 2011

- Assisted engineers with sketches and drafts through engineering/drafting process
- Maintained flood mitigation equipment during major flooding event

Linweld Inc. (Waverly, NE 68507): May 2008-October 2008

- Performed quality control inspections during repair of gas cylinders
- Routinely installed and tested gas delivery fittings

Maranatha Bible Camp (Maxwell, NE 69151): August 2006-August 2007

- Manager of conference center with 500-900 daily visitors during summer
- Managed 15-20 kitchen and janitorial staff

- Operated within a constrained budget, decreasing spending by 200%
Maranatha Bible Camp (Maxwell, NE 69151): August 2005-August 2006

- Managed over a dozen kitchen department staff
- Assisted in customer side public relations
- Designed operational budget which cut costs significantly

PERSONAL PROJECTS:

Outside of work hours I build modules and websites, exploring new technology primarily in the JavaScript/npm world. A few things I've made that I am pretty happy with are:

- **hex2words:** Given a hexadecimal value, it returns a list of PGP Words. This is a list of words two users can read to verify they have identical signatures, for example.
- **json-schema-to-markdown:** Turn a JSON schema (a JSON object used to validate other JSON objects) into a human-readable markdown file. It makes writing documentation a lot easier.
- **pipe-transform-cli:** A command line utility I wrote that lets you stream in one encoding and stream out another encoding. For example, hex in and base64 out.

FAMILIAR TECHNOLOGY:

While working at eDataSource, I've built things using:

- Client Related: AngularJS, Riot.js, Highcharts, Browserify, Bootstrap, Babel (ES6 to ES5 mostly), PreCSS, PostCSS, LESS, JS, HTML, CSS, XML, Socket.io, Moment.js, jQuery, ACE (web code editor).
- Server Related: Java 1.6-1.8, Amazon Web Services (AWS, including EC2, S3, SQS, SNS), Google Guava, GSON/JSON, MySQL, HyperSQL, Redis, MongoDB (only in passing) JDBC, JAX-RS, Jetty, Jersey, Maven, Joda (date library), Log4J/SLF4J, OAuth, YAML, JMock, Spring Framework, Atmosphere (Java websocket implementation), Swagger.io, PhantomJS.
- Development Tools: IntelliJ, Eclipse, JRebel, bash, Node.js, npm, LiveReload, browserify, ES6 and ES5, minify/uglify for JS, Mustache (template language), Tape (test framework), BrowserStack, Markdown to HTML transforms, Git, Github, Bash, Ruby, Homebrew.

Personally created tools and products using many of the same things, and in addition:

Ractive.js, Express, Ecstatic, Sublime Text, SQLite, PHP, JSON Schema, spent time learning basic cryptography (AES, RSA, SHA, SHA-2, PGP/GPG), contributed to ngbp (AngularJS boilerplate), Noddity, and recently PhantomJS. Comfortable in most operating Systems: Windows, Mac, Ubuntu, Debian.

OTHER SKILLS/INTERESTS:

- Experience with the popular operating systems: Ubuntu, Windows, Mac, and Linux in general. Also familiar in passing with Docker, and would love reasons to dive deeper.
- Proficiency and familiarity with several programming languages—Javascript, Perl, HTML/CSS, PHP, Java.
- Publishing small, reusable code, so that long-term maintenance is easier.
- Familiar with modeling software such as AutoCAD, Autodesk, SolidWorks, etc.
- Experienced audio technician, and reasonable with general electronics repair.
- Was part of the University Mini Baja group, researching viability of a hydrostatic transmission design.
- Vehicle repair technician, engine rebuilds.
- Enjoys a good cigar and a glass of scotch on occasion.