

Alex Birdsall

FULL STACK WEB DEVELOPER

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I care about solving problems and I hope to build beautiful, logically interesting things, working in a team that cares about ethics, collaboration, and quality.

Jul '17–Present SigFig

typescript My first role at SigFig was as an angularJS dev. Along
scala with developing unit-tested features and fixing bugs, I
angularJS helped redesign the build system of a large whitelabeled
frontend builds typescript app to use ES2015 modules and manage
react dependencies with npm or yarn; I converted hundreds
A/B testing of files to the new system during the migration. I
personally refactored the build system to decouple its
new build tool from its old one, significantly simplifying
its configuration. I also designed the component A/B
testing API and rewrote its integration with a 3rd-party
user assignment backend, using a modular design so
that the testing backend could easily be replaced by a
better alternative down the line. I was also involved in
the early stages of work with a new frontend
application using typescript and react.

Soon after, I transferred over to work on building the
Scala backend service which supports that product. I
helped spec out the REST API, and I wrote code which
aggregated and composed data from various
microservices to simplify complex, paperwork-heavy
workflows.

Aug '16–Jun '17 Legal Information Institute, Cornell Law

ES2015 Cornell Law School picked up the Lawfetcher project,
build scripts rebranding it as RIO (Read It Online) and hiring me to
browser caching maintain and expand it. I refactored and completed test
coverage of the domain logic; wrote code to parse a
broader set of citation types and link to more sources;
converted the build process to transpile modular ES2015
application code and tests; and implemented a [filename
fingerprinting](#) system to manage browser caching,
enabling both frequent, iterative code deployment and
efficient loading.

Jan '17–Jun '17 **The Emoji Dictionary**

php 7 As a consultant, I did freelance work for The Emoji
Apache Foundation's crowdsourced Emoji Dictionary. The work
build scripts focused on human-readable URLs, rewriting database
SEO queries and building indexes for clarity and efficiency,
and other SEO and performance fundamentals, as well
as extracting shared templates and refactoring old code
for better semantics and maintainability.

Jan '16–July '16 **Flock**

Rails 4 As software engineer for an HR and compliance startup,
Middleman I worked with the entire stack from stylesheets to server
SCSS ops. I maintained Middleman static sites for the
encryption & company's landing page and blog as well as its Rails app.
authentication I personally implemented secure and user-friendly
integrations with TraxPayroll and Greenhouse.io, which
involved complicated data mapping, multiple forms of
encryption, and, at times, working with out-of-date and
contradictory documentation. I organized both the
stylesheets and javascript assets, spanning hundreds of
files (some containing several thousands of lines); and in
general, worked hard to model and advocate for
consistency of data modeling, clear and explicit API
boundaries, and well-designed abstraction on a
codebase, initially built by foreign contractors, that left
much to be desired in those regards.

Aug '15–Dec '15 **Lawfetcher**

JavaScript A freelance project in collaboration with Emeritus Prof.
regular expressions Peter W. Martin of Cornell Law. A free tool for legal
browserify writing, it semantically parses US legal citations and
programmatically builds direct links to the full text in
various free and subscription services. More regular
expressions than you can shake a stick at.

Jan–Mar '15 **Magoosh**

MySQL I worked as a junior dev with Magoosh, a leader in
Rails 3 online test prep based in Berkeley. I shipped many
CoffeeScript features, including auto-tagging for support tickets, an
HAML instructor dashboard, an in-house A/B testing library,
Bootstrap and a photo upload system for static pages. I focused
intensely on improving the design quality and
professionalism of my code.

Jul–Sept '14 **Dev Bootcamp**
Programming & web fundamentals
git & *nix CLI
Ruby & Rails
JavaScript, HTML, & CSS
An immersive 19-week web development program.
Over the final 9 weeks alone, I worked over 1000 hours at the San Francisco campus in an intensely collaborative environment that emphasized hands-on learning, empathy, communication, and problem-solving.

Summer '12 & '13 **Portland Community College**
While employed at Art 4 Life, independently pursued interests in Statistics and Computer Science. Where I discovered how much I enjoy programming.

Nov '12–Jun '14 **Art 4 Life**
As Head Teacher, I ran the daily operations of an after-school art program for 2nd and 3rd graders at North Portland's Chief Joseph Elementary. Between coming up with daily projects and managing a group of 30 kids, a constant exercise in communication and off-the-cuff creativity.

Class of '08 **Cornell College**
B.A. in English, minor in Music. Received 2007 Winnifred Van Etten Award for Creative and Scholarly Excellence.

Though seemingly unrelated, my studies centered on an interest in how human expression exists within and is influenced by logically analyzable systems like syntax, music theory, or grammar. I have found this to be surprisingly good preparation for the work of programming.