

# Rob Hilgefert

Senior software engineer proficient in Javascript. Passionate about composition, static typing, and generally maintainable coding practices through Functional Programming. See side bar for highlighted/recent technology experience.

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## EXPERIENCE

### (Stealth Startup) - Denver, CO

2018-2019

#### Engineering Manager / Senior Backend Software Engineer

- Integrated into an established and mature Cryptocurrency/Blockchain exchange company as a senior backend engineer. I was soon asked to become an engineering manager after 3 months during a reorg.
- Worked on the market/exchange platform team responsible for trading coins and communicating to other parts of the business.
- Helped establish coding standards / overall process, and mentored developers as an engineering manager.
- *Javascript, Node, ES7, Express, GraphQL, React, Mongo, PostgreSQL Ramda, Lodash, Functional Programming, Docker, RabbitMQ, Redis, Repository Pattern, Blockchain.*

### Charter - Denver, CO

2018

#### Senior Front End Developer

- Worked for a "startup" team inside Charter Communications that was building an in-house A-B Testing Framework.
- Implemented feature requests from FE to BE in React, Apollo, GraphQL, and Mongo around user and experiment management.
- *Javascript, Node, ES7, GraphQL, Apollo, React, Redux, Mongo, CSS3, HTML5, Ramda, Lodash, Lenses, Recompose, Functional Programming, Docker, Python, Machine Learning.*

### Losant, IOT - Cincinnati, OH

2017-2018

#### Senior Backend Software Engineer

- Worked as a Backend/Infrastructure Engineer on a small team to develop a platform/product through series A funding and team expansion.
- Developed on an IoT backend platform and frontend application that allowed IFTTT styled workflows based on streaming data.
- Built a service discover nginx load balancer on top of Docker Cloud which was integrated into a MongoDB domain collection.
- *Javascript, Node, ES6, Express, React, Mongo, Webpack, Ramda, Lodash, Tcomb, Functional Programming, Docker, Kairos, Cassandra, MQTT, RabbitMQ, Redis, Google Cloud Platform, Docker Cloud.*

## Coding Style / Philosophy

General - - - - - 8y

OOP - - - - - 7y

FP - - - - - 3y

## LANGUAGES

Javascript / ES - - - - - 6y

Node - - - - - 6y

ReasonML / Ocaml - - - 0.5y

PureScript / Haskell - - 0.5y

Lua / Moonscript - - - - 1y

eLisp - - - - - 3y

VimScript - - - - - 4y

## FRAMEWORKS / LIBRARIES

Express - - - - - 5y

GraphQL - - - - - 1y

React - - - - - 3y

Redux - - - - - 2y

Apollo - - - - - 1y

Mocha/Chai/Jest - - - 6y

React - - - - - 3y

Redux - - - - - 2y

GatsbyJS - - - - - 1y

NextJS - - - - - 0.5y

Mongoose - - - - - 2y

Ramda - - - - - 3y

Sanctuary - - - - - 2y

Lodash - - - - - 4y

Lenses - - - - - 1y

tcomb/io-ts - - - - - 2y

Styled Components - - 2y

Recompose - - - - - 1y

## Small World Social - San Francisco, CA

2016-2017

### Senior Software Engineer

- Worked remotely on a small team of 4 senior developers. Acted as Co-CTO with another senior developer in the absence of one.
- Maintained and developed on a legacy node platform / api built with a plugin, microservices architecture.
- Managed and serviced all production products which includes managing their AWS suite.
- Created new processes for development workflow and better communication with the business team. Moved company to Trello, as well as GitHub/ZenHub for engineering oversight/planning.
- Architected and built a React/Redux app to replace a prototype app.
- Managed a migration from Modulus to AWS using Docker.
- *Javascript, Node, ES6, Express, React, Redux, Mongo, CSS3, HTML5, Webpack, Ramda, Sanctuary, Flow, Lodash, Functional Programming, Docker, Styled Components.*

## Zipscene - Cincinnati, OH

2013-2016

### Director, Technology

- Lead and managed a five person development team.
- Architected, lead, managed, and developed a phonegap-first application platform to quickly supply restaurants with location searching, menu browsing, online ordering, account management, and loyalty. Deployed to five clients, can be found in Apple and Android stores.
- Worked in tandem to build an online ordering back-end platform
- Supported another lead developer in finishing a dashboard CMS for clients to manage data.
- Helped manage infrastructure on AWS including domain management, ssl certs, S3 data, and more.
- *Javascript, Node, ES6, Express, Ember, Ember-cli, Mongo, Mongoose, Elasticsearch, Redis, AWS, CSS3, HTML5, Grunt, Phonegap, XCode, Android, iOS, Google Maps.*

## Powernet Global - Fairfield, OH

2012-2013

### Lead Software Engineer - Web

- Developed a contracts database, ajax heavy (30+ calls), single page web application interface based on designs/legal specs.
- Designed and architected an inventory management system crud single page, ajax driven, web application featuring a barcode scanner module in collaboration with an Oracle / Java team.
- Collaborated to create vendor management bundle in Symfony 1.1.
- Developed SOAP web service that consumed Verizon, Sprint, and others' WSDLs for real-time quotes.
- *PHP, Oracle DB, Symfony 1.1 & 2.0, Doctrine2, Propel, Javascript, jQuery -UI, HTML5, CSS3, LESS, Bootstrap, Font Awesome, Underscore, jTable, Ruby,*

## DATABASES / AMQP

Mongo - - - - - 6y  
RabbitMQ - - - - - 2y  
PostgreSQL - - - - - 0.5y  
Karios - - - - - 0.5y

## OS / Infrastructure

Mac - - - - - 8y  
Linux - - - - - 6y  
AWS - - - - - 3.5y  
GCE/GCP - - - - - 1y  
Docker - - - - - 3y

## Whoami

Web - - - - - [rob.hilgefort.me](http://rob.hilgefort.me)  
Twitter - - - - - [rjhilgefort](https://twitter.com/rjhilgefort)  
Facebook - - - - - [rob.hilgefort](https://www.facebook.com/rjhilgefort)  
GitHub - - - - - [rjhilgefort](https://github.com/rjhilgefort)  
Npm - - - - - [rjhilgefort](https://www.npmjs.com/~rjhilgefort)

## DEV ENVIRONMENT / TOOLS

Mac, Homebrew, Alfred, Hammerspoon, Chrome, Trello, Github, Zenhub, iTerm2, Zsh, Antigen, Tmux, Spacemacs (emacs), Vim, Tig, Magit, Dash, Ergodox infinity, Planck, Pocket, Todoist, Airmail, Fantastical, Harvest, Slack, Coffee, Tea.

## HOBBIES

Hiking, Road Running, Trail Running, Road Cycling, Mountain Biking, Skiing, Snowboarding, National Ski Patrol, Ping Pong, Golf, Tennis, Music, Tabletop Games, TCGs, Coding, Mechanical Keyboards, Blockchain.

**Procter & Gamble – Mason, OH**

2012

*Web Programmer*

- Implemented web surveys as described by design docs.
- Performed statistical analysis on resulting data.
- Created plugins/extensions as needed for data manipulation.
- *Python, HTML, CSS, JS, Perl, SPSS, SMRT, Desktop Reporter*

**Siemens PLM Software – Milford, OH**

2011–2012

*Software Engineer*

- Corrected bugs & implemented features to a Java application that migrates CAD data to Siemens's NX data for use with TeamCenter.
- Architected and executed an automated QA tool with an intelligent, sortable table front-end.
- Delegated tasks as project lead on aforementioned QA tool.
- *Java, Perl, HTML, Javascript, Teamcenter, NX*

**EDUCATION**

**University of Kentucky – Lexington, KY**

2010

*B.A. Philosophy, Computer Science Minor, Psychology Minor*

- Relevant Coursework: Web Development, Algorithm Design/Analysis, Software Architecture, Operating Systems
- *Java, Perl, C#, JavaScript, PHP, MySQL, HTML, CSS*

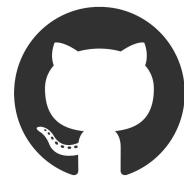
**OPEN SOURCE PROJECTS**

**Github @rjhilgefort**

2011–present

[github.com/rjhilgefort](https://github.com/rjhilgefort)

- The code for many of the projects (below) is hosted on GitHub– along with some open source projects I've hacked on, and/or contributed to.
- I would encourage you to poke around there as there are many small projects not mentioned below.



2018

[rjhilgfort/crypto-orderbook-api](#) & [rjhilgfort/crypto-orderbook-app](#)

- The beginnings of an aggregate orderbook on top of Bittrex and Poloniex.
- This project was built as a coding test for ShapeShift and features a TypeScript + Ramda implementation. Uses React and Semantic UI on the FE.
- *FP, Node.js, TypeScript, Ramda, Jest, React, Recompose, Express, Semantic UI*



2018

[github.com/rjhilgfort/reasonml-playground](https://github.com/rjhilgfort/reasonml-playground)

- Started developing a “talk” on ReasonML and began building code snippets that give a concise tour of the language.
- During the time I was building the talk, I was integrating ReasonML into a Journaling application that I’ve been building (private repo). I would love to show this code on a call if interested.



2018

[github.com/rjhilgefort/moments-album-scraper](https://github.com/rjhilgefort/moments-album-scraper)

- My family tends to take photos and put them on Facebook's Moments app, which is great, but then you can't download the album. So, I created a web scraper script to download any album you want from your account!
- *FP, Ramda, PhantomJS, Higher Order Functions*

```
const makeMediaName = makeMediaNameFactory({
  path: OUTPUT_DIR,
  initialNum: 0,
  title: ALBUM
})

const lightboxElementType = elementType => {
  'tu_0_0' > div > span > div, 'lor' > [elementType]::not(1, 'ivz')
}
const lightboxImageElement = lightboxElementType('img')
const lightboxVideoElement = [lightboxElementType('span') > video]

const ALBUM_TITLE_SELECTOR =
  'body' > div, '2' > div, 'fe' > a, 'f6' > div, '459f' > div, 'sn' > div, '4599' > div, '459'
const LIGHTBOX_NEXT_BUTTON = 'tu_0_0' > div > span > a, 'lor', 'lor' > div > div

const main = async () => {
  // Setup page, inject environment vars
  const browser = await puppeteer.launch({
    headless: HEADLESS
  })

  const page = await browser.newPage()
  await defineVarOnPage(page, 'ALBUM', ALBUM)

  await page.goto('https://www.facebook.com/moments_app')
```

2018

[github.com/rjhilgefort/github-user-activity](https://github.com/rjhilgefort/github-user-activity)












- Dissatisfied with how GH showed users' repository page, I created a quick website that hit GH's GraphQL API to build a FE that fit what I wanted.
- Techwise, this project explored Styled Components, React, Recompose.
- *FP, Ramda, Jest, React, Recompose, Styled Components, Semantic UI*

GitHub User Activity				
gacaron				
	Owner	Primary Language	Other Languages	UpdatedAt
prepack	facebook	<a href="#">JavaScript</a>	<a href="#">Shell</a> <a href="#">CSS</a> <a href="#">HTML</a>	3/11/2018
storybook	storybooks	<a href="#">JavaScript</a>	<a href="#">Shell</a> <a href="#">TypeScript</a> <a href="#">HTML</a> <a href="#">CSS</a> <a href="#">Vue</a> <a href="#">Python</a> <a href="#">Java</a> <a href="#">Observable</a> <a href="#">C</a>	3/11/2018
DefinitelyTyped	DefinitelyTyped	<a href="#">TypeScript</a>	<a href="#">JavaScript</a> <a href="#">Shell</a>	3/11/2018
devtools-core	devtools-html	<a href="#">JavaScript</a>	<a href="#">HTML</a> <a href="#">CSS</a> <a href="#">Python</a>	3/11/2018

2017

[github.com/rjhilgfort/export-dir](https://github.com/rjhilgfort/export-dir)

- An open source project I maintain to support a small amount of users.
- Tiny package that allows for declarative directory exports based on the contents of that directory.
- *FP, Node.js, Ramda, Jest, CommonJS*

		Latest commit (2022-01-25)
 <a href="#">jacobm...</a>	Add a functionality to use exports as subject, test, class	2 days
 <a href="#">Woo</a>	Add a functionality to use exports as subject, test, class	2 days
 <a href="#">jacobm...</a>	Add a functionality to use exports as subject, test, class	2 days
 <a href="#">gjhenge</a>	Initial commit of everything	8 months
 <a href="#">gjhenge</a>	Basic code for using exports	10 days
 <a href="#">LJohann</a>	Initial commit of everything	10 days
 <a href="#">Woo</a>	Add a functionality to use exports as subject, test, class	2 days
 <a href="#">LJohann</a>	Initial commit of everything	2 days
 <a href="#">gjhenge</a>	Initial commit of everything	2 days
 <a href="#">jacobm...</a>	Merge branch 'master' of <a href="#">github.com:gjhenge/export-dir</a>	2 days
 <a href="#">jacobm...</a>	Implemented tests	10 days

**REFERENCE**

📍 [@jnhenge/export-dir](#)

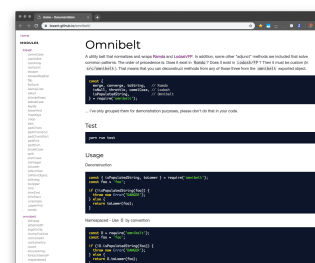
Descriptive: [Lodash.Lazy](#) builder for exporting files in the same directory.

This is a package retrieves the names of exported `exports` (`exports` files that simply `require` and `export` all of the files in the package) and allow for a `subject` and `test` to be used.

2017

[losant.github.io/omnibelt](https://losant.github.io/omnibelt)

- A common pattern that I build to consolidate utility code and libraries like Lodash and Ramda. Omnibelt is the formalization of that effort.
- Features a JSDoc generated documentation site.
- *Ramda, Lodash, Functional Programming, JSDoc*



## Geocoder CLI

2017

[github.com/rjhilgefort/geocoder-cli](https://github.com/rjhilgefort/geocoder-cli)

- A small example project I completed as part of an interview process. The ask was to geocode some addresses and parse the results. The spec is located at the root of the project.
- Features a no-userland modules solution using just Node.js core.
- *Node.js core, FP, jest, eslint, Google Maps API*

```
~/geocoder-cli master
$ ./app
---
--> Address
!!! Skipping CSV Header
---
--> "9974 Round Bluff Villas, Hemp, NH"
!!! No geocode results for address
---
--> "1103 Bombay Lane, Roswell, GA 30076, USA"
--> Rooftop quality address identified
---
--> "8462 Lazy Walk, Lumpkin, VA"
!!! No geocode results for address
---
--> "7206 Hidden Alley, Badnaton, HI"
!!! No geocode results for address
---
--> "6376 Spalding Drive Suite 0 Norcross"
--> Rooftop quality address identified
```

## Driver Trip Stats

2017

[github.com/rjhilgefort/driver-trip-stats](https://github.com/rjhilgefort/driver-trip-stats)

- A small example project I completed as part of an interview process that showcases an over-engineered (by request) CLI application which parses a text file and outputs the results.
- Showcases an ETL process written in an FP style using Ramda.
- *FP, ramda, tcomb, jest, eslint, commander*

```
< node app data/skip-outlier-trips.txt
Extracting data...

Transforming data...
Trip skipped because speed was an outlier (126 mph)
--> Dan 12:00 12:20 42.2
Trip skipped because speed was an outlier (2 mph)
--> Alex 01:00 18:23 28.8

Loading results...
Alex: 42 miles @ 34 mph
Dan: 39 miles @ 47 mph
Bob: 0 miles
```

## lodash-extras

2015-2017

[github.com/rjhilgefort/lodash-extras](https://github.com/rjhilgefort/lodash-extras)

- An opinionated lodash modification with “extras.”
- These extras are things that I’ve needed over the years, and/or things I thought lodash could do a bit better.
- *javascript, node, gulp, es6, lodash, ember*



## Hammerspoon Layout Manager

2015

[github.com/rjhilgefort/hammerspoon](https://github.com/rjhilgefort/hammerspoon)

- Intended to be a Slate.js companion-ish app to manage layout arrangements as well as smart layouts in OSX.
- *Hammerspoon, Lua, Moonscript, Busted*



## Git Merge Forward

2015

[github.com/rjhilgefort/git-merge-forward](https://github.com/rjhilgefort/git-merge-forward)

- A git “extra” style helper to merge semantic versioned branch names forward chronologically (ascending).
- *Javascript, Node, Shell.js, underscore.js*

### Git Merge Forward

```
Merge chronologically separated branches forward to 'master'

~/git-merge-forward master
$ git-merge-forward
> Settings (run --help for info)
usage: git-merge-forward
branchPrefix: release
with: false

> Select branches to merge forward: (Press space to select)
+ release/v0.4.1
+ release/v0.4.2
+ release/v0.5.0
+ release/v0.5.1
+ release/v0.5.2
+ release/v0.5.3
+ master
```

## dotfiles

2014-present

[github.com/rjhilgefort/dotfiles](https://github.com/rjhilgefort/dotfiles)

- The perpetual project. My configuration files for as many os environment tools possible. Updated daily.
- This project houses my Vim and Spacemacs projects as submodules.
- *bash, zsh, elisp, vimscript, lua, emacs, vim, tmux, spacemacs.*

