

# Mark Karpov

Tel.: (+7) 960-947-8031

Email: [markkarpov92@gmail.com](mailto:markkarpov92@gmail.com)

Twitter: <https://twitter.com/mrkkrp>

GitHub: <https://github.com/mrkkrp>

StackOverflow: <https://stackoverflow.com/users/3687048/mark>

This document is also available as HTML: <https://markkarpov.com/resume.html>

## Summary

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Haskell software developer with 3 years of experience, including 1 year of professional experience.

## Tech work experience

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- **May 4th, 2016–May 20th, 2017** Tier 2 Haskell developer at Stack Builders (remote). The job involved working for several clients mostly from the US. Web-applications built with Yesod, Snap, Servant (including a micro-service based system with Servant on backend). Agile. Another part of the job was writing tutorials and blog posts to increase visibility of the company.

## Technologies

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- Databases: PostgreSQL, MySQL.
- AWS.
- Server automation: Ansible.
- Linux server.
- Strong knowledge of Git.
- CI: Travis CI, Circle CI.
- Front-end: HTML (5), CSS (Bootstrap), JavaScript (jQuery, AJAX).
- Bash/Python/Haskell scripting.
- Other languages I know: C, C++, Python, Common Lisp, Emacs Lisp.

## Haskell

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- Concepts (not mentioning basic things like rank-N types, existentials, phantom types etc.): EDSL using combinators, GADTs, type-level programming, generics, TH, high-performance Haskell, parallel and concurrent Haskell, lens (van Laarhoven/profunctor).
- Libraries (not mentioning vital common libs like monad-control and base): lens, aeson, conduit, postgresql-simple, persistent, esqueleto, dbmigrations, parsec, megaparsec, attoparsec, yesod, snap, servant, http-client, http-conduit, wreq, req, cryptonite, warp, HUnit, hspec, QuickCheck, test-framework, tasty, hedgehog, webdriver, optparse-applicative, path, path-io, stache, vector, containers, unordered-containers, binary, cereal, store, etc.

## Open source projects

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- Megaparsec—Industrial-strength monadic parser combinator library.  
<https://github.com/mrkkp/megaparsec>
- Req—Easy-to-use, type-safe, expandable, high-level HTTP library.  
<https://github.com/mrkkp/req>
- Zip—Efficient library for manipulating zip archives.  
<https://github.com/mrkkp/zip>
- Text Metrics—Calculate various string metrics efficiently in Haskell.  
<https://github.com/mrkkp/text-metrics>
- Stache—Mustache templates for Haskell.  
<https://github.com/stackbuilders/stache>
- Path IO—Operations on files and directories with well-typed paths. I’m also a contributor and co-maintainer of Path itself.  
<https://github.com/mrkkp/path-io>

The full list can be found at <https://markkarpov.com/oss.html>.

## Writing

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- I’ve authored a number of tutorials as part of my job and on my own, see e.g. “GHC optimization and fusion”, the full list is available at <https://markkarpov.com/learn-haskell.html>.
- Blog posts are available at <https://markkarpov.com/posts.html>, see e.g. “Megaparsec: more speed, more power” from the recent ones.
- I’ve authored two chapters for the upcoming book “Intermediate Haskell”: Exceptions and Megaparsec. Unfortunately the content is not publicly available yet (only available to reviewers).

## Education

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- 2009–2014—Polzunov Altai State Technical University. Engineer degree in informational technology and measuring engineering.

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