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Summary

I am a software engineer with lots of experience using Haskell, both professionally and for open source projects. Strong typing and functional programming have helped me achieve a rigorous attitude towards programming – not only in Haskell, but also in other languages I use such as Java, C, C++, OCaml and JavaScript – by constantly striving towards correctness, principled design, and robustness. My personal development projects include high-profile Haskell libraries, and a technical blog.

Skills

- **Functional programming:** I have a deep and broad experience with Haskell, as I have applied it many different areas ranging from High Frequency Trading to Web Programming.
- **Imperative programming:** Problems should be solved in the *right* way. This means that at many occasions, I have had to dive into low-level and system programming.
- **Object-oriented programming:** My experiences with functional languages have taught me many new and valuable lessons about object-oriented programming and design. I believe these lessons will be extremely valuable now that parallel programming has become ubiquitous.
- **System administration:** For years, I have been using Linux-based operating systems such as Debian and Archlinux to manage personal servers. This experience proved very useful when I later learned to manage deployments to multiple servers using tools such as Ansible, Puppet and NixOps.
- **Front end:** As a full-stack engineer, I have also become fluent with front-end programming, with e.g. JavaScript (though I prefer TypeScript) and CSS (though I prefer tools such as LESS).
- **Soft skills:** I am fluent in Dutch and English, both spoken and written. I have volunteered in different nonprofits, so I am confident in my teamwork and organizational skills.
- **Other skills:** Relational databases, NoSQL databases, version control systems, scripting...

Education

- **Ghent University** (2011 - 2013): Master in Computer Science: Software Engineering, graduated with high distinction
- **Ghent University** (2008 - 2011): Bachelor in Computer Science, graduated with high distinction
- **Sint-Lodewijkscollege Lokeren** (2002 - 2008): Secondary school: ASO, with Latin & maths specialization

Technical work experience

- **Fugue** (2015 - ...): I am currently a Principal Engineer at Fugue. My work mostly revolves around the Ludwig Compiler, a compiler for a statically typed functional configuration language.
- **Bdellium** (2015): As a contractor, I acted as a remote Haskell developer for [Bdellium](#) for a few months. In this time, I rewrote one of their applications that assessed and compared 401k plans.
- **Better** (2013 - 2014): In September 2013, I started as a full-stack Software Engineer at [Better](#) (previously known as *Erudify*). I mostly worked on the Haskell backend and business logic.

- **Tsuru Capital LLC** (2012): I did a internship as a programmer at [Tsuru Capital LLC](#), a proprietary trading fund based in Tokyo and Singapore. This position taught me a lot about designing large applications, and how to make my code run *fast*.
 - **Google Summer of Code** (2010 - 2011): I participated in [Google Summer of Code](#) twice, in 2010 and 2011. In both cases, I worked for a Haskell project and was positively evaluated.
 - **Amplidata** (2011): I worked as a Software Engineer at [Amplidata](#) as a summer job. This involved extending their proprietary Distributed Storage System with an NFS frontend, written in [OCaml](#).
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Open source contributions

- **Hakyll**: I wanted a custom system for my personal homepage, so I wrote Hakyll, a static site generator in Haskell.
- **blaze-builder**: Simon Meier and I developed an initial version of a fast builder monoid for the [BlazeHtml] project. This library is now used in many Haskell projects. Simon is the current maintainer.
- **blaze-html**: a blazingly fast HTML combinator library for the Haskell programming language. I worked on this project for [Google Summer of Code 2010](#).
- **Text**: I worked on the text library as a [Google Summer of Code](#) student, creating a port which uses UTF-8 internally, and doing extensive benchmarking to discover the trade-offs between the different encodings.
- **websockets**: I created a library for easily writing robust WebSocket-capable servers in Haskell.

Apart from these projects, I have also authored or co-authored [stylish-haskell](#), [Digestive functors](#), [psqueues](#), [Lorem Markdownum](#), [geohub.github.com](#), [12Urenloop](#), [JVGS](#), and more. I have also made contributions to many Haskell libraries and tools. Most info can be found on my [GitHub page](#), and I would be glad to provide details on request.

Community involvement

Apart from the technical blog I maintain at [jaspervdj.be](#), I have also given a lot of talks at various conferences and user groups. My talks have almost exclusively been around Haskell, and I have spoken in Ghent, Utrecht, Cambridge, New York, London and Zürich. I would be happy to provide a full list of topics and slides on request.

During the time I was at [Ghent University](#), I was in the organizing committee of the students' Computer Science Workgroup, [Zeus WPI](#), as well as the organizing committee of the [Ghent Functional Programming Group](#).