

# Tom Sydney Kerckhove

Software Engineer

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## Keywords

Software Development Safety Back-end Haskell Reliability Robustness

## Experience

<b>Software Engineer — FP Complete</b>	Remote 2017-09 - present
<b>Research Assistant; Functional Programming — ETH Zürich</b>	Zürich, CH 2017-06 - 2017-09
<b>Teaching Assistant: Functional Programming — ETH Zürich</b>	Zürich, CH 2017-02 - 2017-04
<b>Founder and Software Engineering Consultant — CS Kerckhove</b>	Remote 2016-12 - present
<b>Software Engineering Intern — Facebook</b>	London, UK 2016-06-27 - 2016-09
<b>Mentor — haskell.org (volunteer)</b>	Remote 2016-06-13 - 2016-09-12
<b>Teaching Assistant: Functional Programming and Formal Methods — ETH Zürich</b>	Zürich, CH 2016-02 - 2016-06
<b>Teacher / Coach — CS Syd (volunteer)</b>	Remote 2016-02 - 2016-06
<b>Software Engineering Intern — Google</b>	London, UK 2015-06-26 - 2015-09
<b>Robotics Research Intern — KU Leuven</b>	Leuven, BE 2014-07 - 2014-09
<b>Board Member — Sagio (volunteer)</b>	Leuven, BE 2013-09 - 2013-12

## Education

<b>Master of Engineering — ETH Zürich</b>	2016-09-21 - 2017-09-07 <i>Focus: Safety</i>
<b>Erasmus Exchange — ETH Zürich</b>	2015-09-14 - 2016-06-03 <i>Won the only nomination</i>
<b>Bachelor of Science — KU Leuven</b>	2012-09-25 - 2015-06-19 <i>Focus: Abstract Mathematics</i>

## Languages

English	Fluent
Dutch	Native Speaker
French	Basic words and phrases
German	Basic words and phrases

## Skills

**Programming** Fluent  
Haskell, QuickCheck, QuickSpec, Vim, Git, Java, Python, Shell, LaTeX,

## Programming

Minimal Experience

AWS EC2, AWS S3, AWS SNS, Android, Arduino, Terraform, Assembly, Azure, BLAS, Beamer, Bitbucket, C, C++, CSS, Cassius, Eifel, Emacs, FORTRAN, GPG, Git, Github, Gitlab, Go, HTML, Hadoop MapReduce, Hakyll, Hamlet, Hledger, Javascript, Julius, Keycloak, Kubernetes, LAPACK, Lisp, Lua, Matlab, MySQL, Nginx, Octave, PHP, Pandoc, PostgreSQL, Prolog, Purescript, R, Ruby, Rust, SBV, SQL, SQLite, Scala, Scikit-learn, Servant, Spacemacs, Tamarin, VB.Net, Yesod, Z3,

## Open Source Software

Brick	Declaritive Terminal UI	Haskell	Flexibility
Validity	Validity Based Testing	Haskell	Started
Super User Spark	Config management DSL	Haskell	Started
ΛTeX	Type-Safe LaTeX EDSL	Haskell	Started
Haphviz	Graph vizualisation Code generation library	Haskell	Started
HESS	Haskell E-mail Scraper Spider	Haskell	Started
EDEN	project Euler Development ENgine	Haskell	Started
Chronicle	Command-line journal system	Shell	Started
PAULA	Personalized life assistant	Python	Started
Thanks	Social Network	Haskell and Javascript	Started
Stack	The Haskell build tool of choice	Haskell	Issues and fixes
GHC	Glasgow Haskell Compiler	Haskell	Tests and Documentation
Taskwarrior	Command-line Todo List Manager	C++ and Python	Documentation
Quickcheck	Property-based Testing Framework	Haskell	Bug Fixes
HaTeX	LaTeX - Haskell EDSL	Haskell	Bug Fixes
path	Type-safe paths	Haskell	Bug Fixes and tests
HLedger	Simple, precise, plain text accounting	Haskell	New feature
Qua-kit	Quick Urban Analysis Kit	Haskell	Web development
Hindent	Haskell formatter	Haskell	Bug reports

## Free and Open Source Books

- The Notes
- Numerical Analysis
- Algorithms lab: Field guide
- Real and metric analysis
- Abstract algebra
- Computability and automaton
- Probability theory
- Linear algebra
- Geometry
- Computer guided design of curves and surfaces