

Tom Sydney Kerckhove

Software Engineer, Speaker

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Keywords

Software Development Safety Security Back-end Haskell Reliability Robustness

Experience

Technical Lead – FP Complete	Remote, Zürich, CH 2017-12 - present
Mentor – Google Summer of Code (volunteer)	Remote, Zürich, CH 2018-04 - 2018-08
DevOps and Software Engineer – FP Complete	Remote, Zürich, CH 2017-09 - 2017-12
Research Assistant; Functional Programming – ETH Zürich	Zürich, CH 2017-06 - 2017-09
Teaching Assistant: Functional Programming – ETH Zürich	Zürich, CH 2017-02 - 2017-04
Founder and Software Engineering Consultant – CS Kerckhove	Remote 2016-12 - present
Software Engineering Intern – Facebook	London, UK 2016-06 - 2016-09
Mentor – Haskell Summer of Code - haskell.org (volunteer)	Remote 2016-06 - 2016-09
Teaching Assistant: Functional Programming and Formal Methods – ETH Zürich	Zürich, CH 2016-02 - 2016-06
Teacher / Coach – CS Syd (volunteer)	Remote 2016-02 - 2016-06
Software Engineering Intern – Google	London, UK 2015-06 - 2015-09
Robotics Research Intern – KU Leuven	Leuven, BE 2014-07 - 2014-09
Board Member – Sagio (volunteer)	Leuven, BE 2013-09 - 2013-12

Education

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

Haskell, QuickCheck, QuickSpec, Vim, Git, Java, Python, Shell, LaTeX,

Fluent

Programming

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

Experience

Open Source Software

Smos	A semantic tree-based editor	Haskell	Started
Intray	GTD-style digital in-basket	Haskell	Started
Tickler	GTD-style digital tickler-system	Haskell	Started
Wolf	Personal Relationship Management System	Haskell	Started
Hastory	Advanced Applied Laziness for terminal-use optimisation	Haskell	Started
Mergeless	Merge-free synchronisation	Haskell	Started
Brick	Declaritive Terminal UI	Haskell	Flexiblity
Validity	Validity Based Testing	Haskell	Started
Zifter	Composable code-quality tools	Haskell	Started
Super User Spark	Config management DSL	Haskell	Started
Λ TeX	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 Documentat
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