

Tom Sydney Kerckhove

Software Engineer, Speaker

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Disclaimer

This CV is designed to be read by other software developers and engineers. There is also an other version of this CV in case you were looking for a CV with more keywords or more traditional information like which languages I speak, etc...

Experience

Technical Lead – FP Complete

- Led the Cardano Foundation Audit
- Identified multiple multi-billion dollar vulnerabilities across multiple code-bases
- Set up a quality department and interviewed multiple engineers for it

Remote, Zürich, CH

2017-12 - present

Mentor – Google Summer of Code

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

- Web development with Yesod in Haskell used by hundreds of architecture students

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

- A Pandoc REST service for Corilla
- Centralised access control for Octinion
- A registration tool used by the parents of over 600 students
- Recruited and led a team of engineers

Remote

2016-12 - present

Software Engineering Intern – Facebook

- In-house EDSL for type-safe graph traversal as part of a billion-queries-per-second service
- Improved the safety of the abuse detection system to prevent millions of errors per second

London, UK

2016-06 - 2016-09

Mentor – Haskell Summer of Code - haskell.org

- The GHCVM project has become a programming language on its own: Eta

Remote

2016-06 - 2016-09

Teaching Assistant: Functional Programming and Formal Methods – ETH Zürich

Zürich, CH

2016-02 - 2016-06

Teacher / Coach – CS Syd

- Coached 4 students without any computing background into programming

Remote

2016-02 - 2016-06

Software Engineering Intern – Google

- Sped up online reconfiguration of a global service 100x.

London, UK

2015-06 - 2015-09

Robotics Research Intern – KU Leuven

- Implemented a proof of concept of a combination of the HDF5 data model and the LAPACK/BLAS library in C.

Leuven, BE

2014-07 - 2014-09

Board Member – Sagio

- System administrator for the web server, used by over 200 active tutors and over 500 students.

Leuven, BE

2013-09 - 2013-12

Open Source Contributions

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	Flexibility
Validity	Validity Based Testing	Haskell	Started
Zifter	Composable code-quality tools	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 Documenta
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

Education

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

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