

Tom Sydney Kerckhove

Technical Leader, Speaker, Author

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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 Leader and Engineering Manager — FP Complete

- Led the year-long Cardano audit project covering multiple domains on a security sensitive project, delivering monthly reports
- Defined new Quality Assurance standards for ongoing customer and internal work
- Engaged in engineering education via webinars, blog posts, and open source activities

Remote, Zuerich, CH
2017-09 - present

Founder and 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 for PAESMOL
- Commissioned writing for HumanReadable
- Led several bounty hunters
- <https://worldwideempathyformeds.org>: A crisis tool for moral support during COVID-19 used by hundreds of doctors

Remote
2016-12 - present

Writer — Human Readable Magazine

- Dealing with Friday the 13th - Issue 2
- An Introduction to Property-based testing - Issue 3

Remote
2019-12 - present

External examiner: OpenAPI and Stripe — HSR

- Streep is a Haskell client library for Stripe

Rapperswil, CH
2020-02 - 2020-06

External examiner: Codepanorama — HSR

- Codepanorama is a code-review tool for developers, auditors and consultants

Rapperswil, CH
2019-11 - 2020-01

Mentor — Google Summer of Code

Remote, Zuerich, CH
2018-04 - 2018-08

Research Assistant; Functional Programming — ETH Zuerich

- <https://registration.paesmol.be>: A complex registration tool used by hundreds of architecture students

Zuerich, CH
2017-06 - 2017-09

Teaching Assistant: Functional Programming — ETH Zuerich

Zuerich, CH
2017-02 - 2017-04

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

2016-02 - 2016-06

Teacher / Coach — CS Syd

Remote

- Coached 4 students without any computing background into programming

2016-02 - 2016-06

Software Engineering Intern — Google

London, UK

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

2015-06 - 2015-09

Robotics Research Intern — KU Leuven

Leuven, BE

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

2014-07 - 2014-09

Board Member — Sagio

Leuven, BE

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

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
Hastory	Advanced Applied Laziness for terminal-use optimisation	Haskell	Started
Mergeful	Distributed Cooperative agreement	Haskell	Started
Mergeless	Merge-free synchronisation	Haskell	Started
Validity	Validity Based Testing	Haskell	Started
Super User Spark	Config management DSL	Haskell	Started
Stack	The Haskell build tool of choice	Haskell	Issues and fixes
GHC	Glasgow Haskell Compiler	Haskell	Tests and Documentation
Quickcheck	Property-based Testing Framework	Haskell	Bug Fixes
path	Type-safe paths	Haskell	Bug Fixes and tests
HLedger	Simple, precise, plain text accounting	Haskell	New feature
Hindent	Haskell formatter	Haskell	Bug reports

Education**Master of Engineering Computer Science — ETH Zuerich**

2016-09-21 - 2017-09-07

*Focus: Safety***Erasmus Exchange Computer Science — ETH Zuerich**

2015-09-14 - 2016-06-03

*Won the only nomination***Bachelor of Science Informatics — KU Leuven**

2012-09-25 - 2015-06-19

*Focus: Abstract Mathematics***Free and Open Source Books**

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