

Tom Sydney Kerckhove

Technical Leader, Speaker, Author
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Keywords

Software Development Safety Security Back-end Haskell Reliability Robustness

Experience

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| Technical Leader and Engineering Manager – FP Complete | Remote, Zuerich, CH 2017-09 - present |
| Founder and Consultant – CS Kerckhove | Remote 2016-12 - present |
| Writer – Human Readable Magazine | Remote 2019-12 - present |
| External examiner: OpenAPI and Stripe – HSR | Rapperswil, CH 2020-02 - 2020-06 |
| External examiner: Codepanorama – HSR | Rapperswil, CH 2019-11 - 2020-01 |
| Mentor – Google Summer of Code (volunteer) | Remote, Zuerich, CH 2018-04 - 2018-08 |
| Research Assistant; Functional Programming – ETH Zuerich | Zuerich, CH 2017-06 - 2017-09 |
| Teaching Assistant: Functional Programming – ETH Zuerich | Zuerich, CH 2017-02 - 2017-04 |
| 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 Zuerich | Zuerich, 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

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|--|---|
| Master of Engineering – ETH Zuerich | 2016-09-21 - 2017-09-07 <i>Focus: Safety</i> |
| Erasmus Exchange – ETH Zuerich | 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 |
| 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 |

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