

Tom Sydney Kerckhove

Software Engineer

Address: Hoogeind 81 2400 Mol Belgium

Phone: +32 474 278 510

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syd.kerckhove@gmail.com

Website: <http://cs-syd.eu>

Github: NorfairKing

StackOverflow: syd-kerckhove

Keywords: Software Development Safety Back-end Haskell

Experience

Teaching Assistant: Functional Programming – ETH Zürich Zürich, CH
2017-02 - 2017-04

Founder and Software Engineering Consultant – CS Kerckhove Remote
• A Pandoc REST service for Corilla. 2016-12 - present

Software Engineering Intern – Facebook London, UK
• Designed and built an in-house EDSL for type-safe graph traversal in abuse detection
• Improved the safety of the abuse detection system to prevent millions of errors per second
2016-06-27 - 2016-09

Teaching Assistant: Functional Programming and Formal Methods – ETH Zürich Zürich, CH
2016-02 - 2016-06

Software Engineering Intern – Google London, UK
• Worked together with a team of brilliant engineers in data warehousing and business intelligence technologies.
• Collaborated Globally on testing the very newest of technologies in dynamic reconfiguration.
• Designed, implemented, tested and launched a feature that would save stakeholders weeks of time.
• Took part in resolving an emergency situation beyond the scope of my project.
2015-06-26 - 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.
• Modified the FORTRAN LAPACK library to be more configurable.
• Got an introduction to Robot kinematics and dynamics
2014-07 - 2014-09

Volunteering

Mentor – haskell.org Remote
• Mentored a student in the Summer of Haskell GHCVM project. 2016-06-13 - 2016-09-12

Teacher / Coach – CS Syd Remote
• Coached 4 students without any computing or mathematical background into programming
2016-02 - 2016-06

Board Member – Sagio Leuven, BE
• System administrator for the web server, used by over 200 active tutors and over 500 students.
• Managed all of the software tools for the other board members.
2013-09 - 2013-12

Education

Master of Engineering – ETH Zürich 2016-09-21 - 2017-09-07
Focus: Safety

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, Android, Arduino, Assembly, BLAS, Beamer, C, C++, CSS, Cassius, Eifel, Emacs, FORTRAN, GPG, Go, HTML, Hadoop MapReduce, Hakyll, Hamlet, Hledger, Javascript, Julius, LAPACK, Lisp, Lua, Matlab, MySQL, Nginx, Octave, PHP, Pandoc, Prolog, Purescript, R, Ruby, Rust, SBV, Scala, Scikit-learn, Servant, Spacemacs, Tamarin, VB.Net, Yesod, Z3,

Minimal Experience

Open Source Software

Validity	Validity Based Testing	Haskell	Started
Super User Spark	Config management DSL	Haskell	Started
ΛTeX	Type-Safe LaTeX EDSL	Haskell	Started
Haphviz	Graph visualization 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
GHC	Glasgow Haskell Compiler	Haskell	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 features in the web interface

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

References

Karl Bohan

Product Manager @ Google
2015-09

Prof. Dr. Ir. Herman Bruyninckx

Professor @ KU Leuven
2014-09

Awards

