

Tom Sydney Kerckhove

Technical Leader with 10 years of professional experience

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<https://cs-syd.eu>

Disclaimer

This is a generic CV and as such it is probably not the one you are looking for.
Please find more specific CVs at <https://cs-syd.eu/cv>.

Experience

Technical Leader and Engineering Manager — CS Kerckhove

Remote

2016-12 - present

- Research and Development Engineer
- Technical Director and Chief Technology Officer
 - Lead a team of leaders, totalling over 40 engineers
- Technical Leader and Senior Engineering Manager - Feeld
 - Grew the team from 3 to 9 people in 6 months
 - Increased engineering velocity from multi-month release cycles to sub-week.
 - Reduced incidents from multiple per week to none for months.
- 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
 - Led the Hedera audit project of a fourth-generation crypto currency.
 - Defined new Quality Assurance standards for ongoing customer and internal work
 - Engineering education via webinars, blog posts, and open source activities
- External Examiner
 - Bachelor thesis: OpenAPI3 Bindings for Stripe
 - Bachelor thesis: Codepanorama
 - Master thesis: Formally verified Separation Kernel
- Technical Writer - Human Readable Magazine
 - Dealing with Friday the 13th - Issue 2
 - An Introduction to Property-based testing - Issue 3
- Engineering Consulting - Tyler Supervision, Niteo, Relu, E-Bot ...
 - Tyler
 - Niteo
 - E-bot7
 - Relu
- <https://registration.paesmol.eu>: A registration tool, responsible for over 300K in revenue, used by the parents of over 600 students for PAESMOL
- <https://worldwideempathyformedics.org>: A crisis tool for moral support during COVID-19 used by hundreds of doctors

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 and Formal Methods — ETH Zuerich

Zuerich, CH

2016-02 - 2017-04

Software Engineering Intern — Facebook

London, UK

2016-06 - 2016-09

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

Mentor — Haskell Summer of Code - haskell.org: GHCVM (now Eta) (volunteer)

Remote

2016-06 - 2016-09

Teacher / Coach — CS SYD (volunteer)

- 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 by 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 (volunteer)

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

Leuven, BE
2013-09 - 2013-12

Education**Master of Engineering — ETH Zuerich**

2016-09-21 - 2017-09-07

Focus: Program Analysis and Synthesis

Erasmus Exchange — ETH Zuerich

2015-09-14 - 2016-06-03

Won the only nomination

Bachelor of Science — KU Leuven

2012-09-25 - 2015-06-19

Focus: Abstract Mathematics

Languages

English	Fluent
Dutch	Native Speaker
German	Conversational (B1)
French	Basic words and phrases
American Sign Language	Basic signs and phrases