

Tom Sydney Kerckhove

Technical Leader with 10 years of professional experience

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<https://cs-syd.eu>

Disclaimer

This document is an incomplete CV, listing only the relevant parts for consideration for a technical leadership role. Please find other 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

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

Software Engineering Intern — Google

London, UK

2015-06 - 2015-09

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

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

Products

CS SYD: Personal blog, website, landing pages

<https://cs-syd.eu>

Haskell, Nix, NixOps, Yesod, Bulma

- over 1000 monthly active readers
- more than 100 technical and non-technical blogposts

Social Dance Today: Party index for social dance parties worldwide

<https://social-dance.today>

Haskell, Nix, NixOps, Yesod, Bulma

- over 3000 monthly active users
- over 2000 parties per week

Smos: Comprehensive Self-management System

<https://smos.online>

Haskell, Nix, NixOps, Sydtest, QuickCheck, Validity, Yesod, Servant, Brick, Bulma

- A web UI, API server, TUI, CLI and library
- Principal part of CS SYD self-magement training: <https://cs-syd.eu/self-management>

Intray: Getting Things Done capture tool

<https://intray.eu>

Haskell, Nix, NixOps, Sydtest, Yesod, Servant

- Succesfully monetised using Stripe
- Custom API-based integrations for use as a personal notification service

Tickler: Getting Things Done tickler system

<https://tickler.cs-syd.eu>

Haskell, Nix, NixOps, Sydtest, Yesod, Servant

- Succesfully monetised using Stripe

Haskell Templates by CS SYD: Paid starting points

<https://templates.cs-syd.eu>

Haskell, Nix, NixOps, Yesod, Servant

Languages

English

Fluent

Dutch

Native Speaker

German

Conversational (B1)

French

Basic words and phrases

American Sign Language

Basic signs and phrases