

Tom Sydney Kerckhove

LEAD ENGINEER WITH OVER A DECADE OF EXPERIENCE

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This is a CV for individual contributor roles. Please find other CVs at <https://cs-syd.eu/cv>.

EXPERIENCE

12+ Years of Technical experience: Haskell, Nix, Rust

6+ Years of Engineering Management experience

Technical Leader and Engineering Manager

Remote

CS KERCKHOVE

2016-12 - present

- **Research and Development Engineer**
 - Research into an inter-bank interchange format for financial contracts.
- **Technical Director and Chief Technology Officer**
 - Led 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
- **Examinator - HSR**
 - 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 ...
- **Full-stack developer**
 - Built the site responsible for over 300K in yearly revenue, used by the parents of over 600 students for PAESMOL

Teaching Assistant: Functional Programming and Formal Methods

Zürich, CH

ETH ZÜRICH

2016-02 - 2017-04

Software Engineering Intern

London, UK

FACEBOOK

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

London, UK

GOOGLE

2015-06 - 2015-09

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

Robotics Research Intern

Leuven, BE

KU LEUVEN

2014-07 - 2014-09

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

PRODUCTS

Social Dance Today: Party index for social dance parties worldwide

social-dance.today

HASKELL, NIX, NIXOPS, YESOD, BULMA

- over 3000 monthly active users
- over 1000 parties per week

Smos: Comprehensive Self-management System

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

Intray: Getting Things Done capture tool

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

tickler.cs-syd.eu

HASKELL, NIX, NIXOPS, SYDTEST, YESOD, SERVANT

- Succesfully monetised using Stripe

CS SYD: Personal blog, website

cs-syd.eu

HASKELL, NIX, NIXOPS, YESOD, BULMA

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

Haskell Templates: Project starting points

templates.cs-syd.eu

HASKELL, NIX, NIXOPS, YESOD, SERVANT

EDUCATION

Master of Engineering at ETH Zürich

2016-09-21 - 2017-09-07

FOCUS: PROGRAM ANALYSIS AND SYNTHESIS

Erasmus Exchange at ETH Zürich

2015-09-14 - 2016-06-03

WON THE ONLY NOMINATION

Bachelor of Science at KU Leuven

2012-09-25 - 2015-06-19

FOCUS: ABSTRACT MATHEMATICS

LANGUAGES

English Fluent

Dutch Native Speaker

German Conversational

French Basic words and phrases

ASL Basic signs and phrases