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

Technical Leader and Engineering Manager

CS Kerckhove

- 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 serviceImproved 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

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

Remote 2016-12 - present

2014-07 - 2014-09

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