

ROBERT KRAHN

SOFTWARE ENGINEER & RESEARCHER



TECHNICAL PROFICIENCIES

- Languages** JavaScript (TypeScript much preferred!), Rust, Clojure(Script), Python, C, C++, Elixir/Erlang
- Frameworks / Technologies** node.js, Electron, React, vue.js, Angular/rxjs, Reagent, Qt, Gtk, native Win32 development / C++, DirectX, OpenGL, WebRTC, AWS, Google Cloud / Firebase, etc.
- Databases** PostgreSQL, MySQL, SQLite, Neo4j, CouchDB
- Methodologies** Object-oriented programming, Functional programming, Data exploration & science, Machine learning, Open-source project management



EXPERIENCES

since January 2022

Staff Software Engineer

Datadog 📍 Berlin, Germany
Continuing to work on CoScreen post-acquisition.

January 2020
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December 2021

Co-Founder & Software Engineer

CoScreen 📍 Berlin, Germany
Responsible for the system architecture, frontend, backend, OS integration and data analytics.

December 2019
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April 2019

Software Consulting

Independent 📍 Berlin, Germany
• Developing parts of a new presentation software with Clojure / ClojureScript for pitch.com

April 2019
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April 2018

Software Engineer

Google 📍 Mountain View, USA
• Tooling & prototyping for the Google Assistant
• Applying machine learning techniques to improve human / computer interaction.

April 2018
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Oct 2017

Software Consulting

Independent 📍 San Francisco, USA
• Front-end development for Y Combinator startups.

Oct 2017
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May 2016

Senior Researcher

Y Combinator Research 📍 San Francisco, USA
• Designed and implemented the lively.next personal programming environment that is now an open source framework and used by startups for application prototyping and as a user interface library. lively-next.org

May 2016
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Jul 2012

Senior Developer And Researcher

Communications Design Group, SAP 📍 Palo Alto, USA
• Research and development of programming tools supporting program comprehension and debugging.
• From scratch implementation of an IDE for the Clojure programming language ([cloxp](#)) that facilitates live programming and innovative debugging techniques.

Jun 2012
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Oct 2011

Software Engineer

Zendesk 📍 Copenhagen, Denmark
• Design and implementation of a modular JavaScript front-end architecture for help desk applications with a Ruby-on-Rails backend. Special emphasis on extensibility and customizability by end-users.

Sep 2011
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Oct 2010

Research Assistant, Ph.D. Candidate

Software Architecture Group, Hasso Plattner Institute 📍 Potsdam, Germany
• Industry cooperation: Created a web-based development platform for prototyping and rapid development in cooperation with the SAP Palo Alto Research Center. My work contributed to the SAP OpenUI5 project.
• Research and teaching, software development tooling, context-oriented programming, and modularity.

Mar 2009
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Aug 2008

Software Engineering Internship

Sun Microsystems Laboratories 📍 Menlo Park, USA
• Implemented a programmable wiki in the Sun Labs Lively Kernel for collaborative online app development.



EDUCATION

2010
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2005

M.Sc., IT Systems Engineering

Hasso Plattner Institute, University of Potsdam 📍 Potsdam, Germany
• M.Sc. Thesis: Lively Wiki - A Development Environment for Creating and Sharing Rich Web Content
• B.Sc. Thesis: Mapping Semantic Units between Squeak and Subversion

CONTACT INFO

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🐦 twitter.com/robertkrahn

PORTFOLIO AND PUBLICATIONS

A list of my past projects, re-search publications, and talks can be found at <https://robert.kra.hn>.