

ROBERT KRAHN

SOFTWARE ENGINEER & RESEARCHER



TECHNICAL PROFICIENCIES

Languages	JavaScript/TypeScript, Rust, Clojure(Script), 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 February 2020	Software Engineer CoScreen First employee, responsible for <ul style="list-style-type: none">• System architecture and data model (Firebase and AWS cloud)• Frontend (Electron / vue.js)• Windows integration (desktop capturing, video rendering based on DirectX11)• Developing a data analytics platform and interactive business insight workspace	📍 Berlin, Germany
February 2020 April 2019	Software Consulting Independent <ul style="list-style-type: none">• Developing parts of a new presentation software with Clojure / ClojureScript for Pitch.com	📍 Berlin, Germany
April 2019 April 2018	Software Engineer Google <ul style="list-style-type: none">• Tooling & prototyping for the Google Assistant• Applying machine learning techniques to improve human / computer interaction.	📍 Mountain View, USA
April 2018 Oct 2017	Software Consulting Independent <ul style="list-style-type: none">• Front-end development for Y Combinator startups.	📍 San Francisco, USA
Oct 2017 May 2016	Senior Researcher Y Combinator Research <ul style="list-style-type: none">• 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	📍 San Francisco, USA
May 2016 Jul 2012	Senior Developer And Researcher Communications Design Group, SAP <ul style="list-style-type: none">• 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.	📍 Palo Alto, USA
Jun 2012 Oct 2011	Software Engineer Zendesk <ul style="list-style-type: none">• 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.	📍 Copenhagen, Denmark
Sep 2011 Oct 2010	Research Assistant, Ph.D. Candidate Software Architecture Group, Hasso Plattner Institute <ul style="list-style-type: none">• 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.	📍 Potsdam, Germany
Mar 2009 Aug 2008	Software Engineering Internship Sun Microsystem Laboratories <ul style="list-style-type: none">• Implemented a programmable wiki in the Sun Labs Lively Kernel for collaborative online app development.	📍 Menlo Park, USA



EDUCATION

2010 2005	M.Sc., IT Systems Engineering Hasso Plattner Institute, University of Potsdam <ul style="list-style-type: none">• 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	📍 Potsdam, Germany
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CONTACT INFO

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PORTFOLIO AND PUBLICATIONS

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

The source code of this document can be found at git.io/vNpB8.