

# ROBERT KRAHN

SOFTWARE ENGINEER & RESEARCHER



## TECHNICAL PROFICIENCIES

<b>Languages</b>	Rust, Python, TypeScript
<b>Tools / Technologies</b>	node.js, Electron, React, tailwind CSS, AWS, Google Cloud, Kubernetes (k3s), Nix/NixOS
<b>Databases</b>	PostgreSQL, SQLite, Firebase, Redis, AMQP
<b>Methodologies</b>	Functional programming, Object-oriented programming, Data exploration & science, Machine learning, Open-source project management



## EXPERIENCES

Jan 2022   Jun 2023	<b>Founder</b> podwriter.io Text / audio transcription and editing tool for podcasters.	📍 Berlin, Germany
Jan 2020   Jun 2023	<b>Co-Founder &amp; Staff Software Engineer</b> CoScreen acq. by Datadog Responsible for the system architecture, frontend, backend, OS integration and data analytics. <ul style="list-style-type: none"><li>• System architecture and data model (Firebase and AWS cloud)</li><li>• Frontend / desktop application (Electron / vue.js)</li><li>• Native windows support (desktop capturing/streaming, custom video renderer based on DirectX11)</li><li>• Developing a data analytics platform and interactive business insight workspace (React / node.js / Rust)</li><li>• Design and development of a public REST API</li></ul>	📍 Berlin, Germany
Apr 2019   Apr 2018	<b>Software Engineer</b> Google <ul style="list-style-type: none"><li>• Tooling &amp; prototyping for the Google Assistant</li><li>• Applying machine learning techniques to improve human / computer interaction.</li></ul>	📍 Mountain View, USA
Apr 2018   Oct 2017	<b>Software Consulting</b> Independent <ul style="list-style-type: none"><li>• Front-end development for Y Combinator startups.</li></ul>	📍 San Francisco, USA
Oct 2017   May 2016	<b>Senior Researcher</b> Y Combinator Research <ul style="list-style-type: none"><li>• 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. <a href="https://lively-next.org">lively-next.org</a></li></ul>	📍 San Francisco, USA
May 2016   Jul 2012	<b>Senior Developer And Researcher</b> Communications Design Group, SAP <ul style="list-style-type: none"><li>• Research and development of programming tools supporting program comprehension and debugging.</li></ul>	📍 Palo Alto, USA
Jun 2012   Oct 2011	<b>Software Engineer</b> Zendesk <ul style="list-style-type: none"><li>• Design and implementation of a modular JavaScript front-end architecture.</li></ul>	📍 Copenhagen, Denmark
Sep 2011   Oct 2010	<b>Research Assistant, Ph.D. Candidate</b> Software Architecture Group, Hasso Plattner Institute <ul style="list-style-type: none"><li>• Research and teaching, software development tooling, context-oriented programming, and modularity.</li></ul>	📍 Potsdam, Germany
Mar 2009   Aug 2008	<b>Software Engineering Internship</b> Sun Microsystems Laboratories	📍 Menlo Park, USA



## EDUCATION

2010   2005	<b>M.Sc., IT Systems Engineering</b> Hasso Plattner Institute, University of Potsdam <ul style="list-style-type: none"><li>• M.Sc. Thesis: Lively Wiki - A Development Environment for Creating and Sharing Rich Web Content</li><li>• B.Sc. Thesis: Mapping Semantic Units between Squeak and Subversion</li></ul>	📍 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](https://git.io/vNpB8).*