Jonas Keinholz

Munich, Germany | jonas@keinholz.dev | github.com/inyono | linkedin.com/in/jonas-keinholz | keinholz.dev

EDUCATION

Technical University of Munich

Bachelor of Science, Mathematics, grade: passed with merit (2.0)	Oct 2011 — Sep 2015
Bachelor of Science, Informatics, grade: passed with merit (1.7)	Feb 2013 — Mar 2016
33 ECTS towards a Master of Science in Informatics, avg grade 1.4	Apr 2016 — Mar 2018

- Bachelor's thesis: Formalization of Gibbard's random dictatorship theorem in Isabelle/HOL

WORK EXPERIENCE

Head of Software Engineering — Jun 2022 — Present
Obi Technologies — *United States (remote)*

- Tech Lead (hands-on) in a team of 3 full-time equivalent software developers
- Developed and maintained Obi Wallet, a Web3 wallet initially built as a React Native app
- Transitioned Obi Wallet to a Next.js frontend, integrating with various APIs, blockchains, and Web3 protocols

Co-Founder, CTO — Jan 2016 — Jan 2023
Serlo Education — *Munich, Germany*

- Tech Lead (hands-on) in a team of ~5 full-time equivalent software developers, including employees and volunteers
- Led the creation of Serlo Editor, a React-based WYSIWYG editor for learning materials
- Led the redesign and transition from a monolithic tech stack to a GraphQL-based API with a Next.js frontend
- Migrated infrastructure to a scalable Kubernetes cluster on Google Cloud Platform
- Led the technical strategy and development that was instrumental in securing 4.5M € in funding from the German Federal Ministry of Education and Research (BMBF), enabling a significant team expansion

Co-Founder, CTO — Jun 2016 — Jun 2020
Splish — *Munich, Germany*

- Tech Lead (hands-on) of the startup across multiple pivots, from a social media app to an aggregator messaging app, and finally to WYSIWYG editor technology
- Developed and integrated WYSIWYG editor technology, customizing it for DirectMail.io, which adopted it as the foundation for their landing page and email editor as part of a paid collaboration

Freelance Software Developer — Apr 2015 — Mar 2017
Ory — *Munich, Germany*

- Co-created ReactPage (formerly Ory Editor), a WYSIWYG editor
- Developed a secure file-sharing web application for a customer, designed for businesses to safely share files with their customers

Student tutor for various mathematics-related courses — Jan 2013 — Mar 2015
Technical University of Munich — *Munich, Germany*

EXTRACURRICULAR ACTIVITIES

Lecturer for practice academies — Sep 2016, Sep 2018
Studienstiftung des deutschen Volkes

Volunteer Software Developer — Mar 2014 — Dec 2016
Serlo Education

Visiting Software Developer — Feb 2016
Wikimedia Deutschland

PUBLICATIONS

Formalising and Monitoring Traffic Rules for Autonomous Vehicles in Isabelle/HOL — Aug 27, 2017
Albert Rizaldi, Jonas Keinholz, et. al. - Integrated Formal Methods (IFM 2017)

LANGUAGES

German (native), English (full professional proficiency)