

# Philipp Kanaan

## Roles

Software Engineer & Engineering Manager  
Auditor & Tester

## Education

Bachelor of Science Information Management  
(computer science & economics)  
University of Koblenz Landau, Germany

## Languages

German (native speaker)  
English (fluent)  
French (elementary proficiency)

## Contact

Phone: +49 176 577 824 19  
Mail: [pk@kotai.net](mailto:pk@kotai.net)  
LinkedIn: <https://www.linkedin.com/in/philipp-kanaan>  
Web: <https://kotai.net/en>



# Project History

## developing large-scale system for the construction sector

as a senior software engineer & product owner  
at SOKA-BAU, since 10/2023

I lead a team of engineers to develop and operate a new software system that will serve more than 80% of Germany's construction companies. The system needs to be maximally secure, compliant and robust. A particular challenge is the context of complicated domain-specific processes, language, and regulation.

Go, MinIO (S3-compatible object storage), Typescript, Javascript, SQL, Docker, Event Streaming, Kubernetes

## developed real-estate-brokerage application

as a senior software engineer  
at Purpose Digital Real Estate GmbH, 02/2023 - 09/2023

I developed a self-contained service that regularly syncs legacy system data to a new system. The challenge was a quite faulty legacy database

Typescript, Javascript, Vue, SQL, AWS, Docker, Laravel

## developed large-scale consumer application

as a senior software engineer & engineering manager  
at Bitly, Inc., 12/2021 until 10/2022

At Bitly I was responsible for enhancing the conversion-related systems through various measures. This mainly included the checkout and onboarding processes. The interesting aspect of this project was the scale of several million users per day, where minor changes had great impact, and performance & security were essential.

Typescript, Javascript, Node, Vue, SQL, Event Streaming

NoSQL, Serverless, Lambda, AWS, Docker, Laravel, Go / Golang

## **led development of large-scale data center management app**

as a lead/senior software engineer, as well as product owner  
at Northern Data AG, 10/2020 until 11/2021

I led a team of seven software developers/engineers using agile practices at Northern Data. The software system for which I was responsible consists of multiple services (some of them rather monolithic) that talk to each other via message brokers. The system is mainly constructed with nodeJS-services using Typescript, but it also involves microcontrollers and a proprietary operating system (which is derived from Tinycore Linux). The purposes of the software system are the setup, automation, operation and optimization of thousands of servers distributed across the world. It solves large-scale machine-to-machine communication problems that reputable competitors could not solve, and is valued accordingly. Apart from leading the team of devs together with the CTO, I also had the role of product owner, resulting in respective tasks and responsibilities.

Typescript, Javascript, Node, Event Streaming,  
React, React Native, SQL, NoSQL, Docker

## **developed self-service-platforms in Kubernetes-context**

as a senior software engineer & engineering manager  
at German Edge Cloud GmbH & Co KG (previously iNNOVO Cloud GmbH), 10/2018 - 09/2020

At German Edge Cloud I first developed a self-service-portal that was able to spin up enterprise Blockchain networks via Kubernetes. The respective web application was built with Laravel, VueJS, and Hyperledger Besu. After finishing this project I was part of an engineering team to maintain and improve an internal billing application based on Python, interfacing with Kubernetes. Other than that I implemented UX-improvements in several projects.

Typescript, Javascript, Vue, SQL, NoSQL, Python  
Docker, Hyperledger (Blockchain), Laravel

## **developed FinTech-application including Blockchain**

as a senior software engineer & engineering manager  
at finbc GmbH, 04/2018 - 02/2019

At finbc I helped design and develop a factoring application that leveraged Blockchain technology to help SMEs get funding and stay liquid. The software was created with Laravel and Hyperledger Fabric.

Typescript, Javascript, Vue, SQL, NoSQL,  
Docker, Docker Swarm, Hyperledger (Blockchain), Laravel

## **executed crowdfunding-campaign (security token offering)**

as a consultant  
at Intelligent Fluids GmbH, 05/2018 - 01/2020

Intelligent Fluids saw Blockchain technology as a way of funding global expansion in the form of new plants at different locations, through a so-called token offering. With this goal I designed the respective token in accordance with the BaFin and prepared the offering with specific digital tools.

## **co-founded and managed IT service provider**

named treevolve GmbH  
04/2018 - 01/2020

I co-founded treevolve with a good friend of mine after leaving the previous company as a reaction to the market need for technical competence regarding Blockchain technology. We successfully implemented several projects, executed technical audits, and gave multiple talks and seminars on the topic. We had a team of seven people ranging from lawyers and sales-staff to software engineers.

Typescript, Javascript, Vue, React, Node, Go / Golang, SQL, NoSQL,  
Docker, Hyperledger (Blockchain), Laravel

## **developed software for medical practices (incl. Blockchain)**

as a software engineer, team lead, and product owner  
at eoceo GmbH, 07/2016 - 03/2018

At eoceo I led the development of a software system that leveraged automation and the aggregation/combination of patient data to greatly improve diagnostics (and more). My team consisted of six software engineers with different specializations.

Javascript, SQL, NoSQL, Solidity (Blockchain)

## **developed content management system**

as a software engineer, as well as key account manager  
at Chamaeleon AG, 07/2013 - 06/2016

Chamaeleon developed its own successful content management system and I designed and implemented new features for this product, using mainly Java. Apart from that I held customer workshops and was responsible for managing specific key accounts.

Java, Javascript, SQL

## **additional tech & paradigms**

The following list outlines the skills and experience that I have not mentioned above:

- 1 Git
- 2 TDD / BDD
- 3 (rudimentary knowledge:) Kubernetes
- 4 Several agile methodologies, SAFe, OKRs
- 5 Wardley Mapping
- 6 Arc42