



## Johannes Hertenstein

Software Developer / DevOps Engineer

Certified Advanced Symfony Developer

PHP (SYMFONY / LARAVEL)

GOLANG

DEVOPS

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## Software Development

For me, software development is both, a craft and a passion: I have been learning all I can about programming languages, paradigms and adjacent technologies since I was 12 years old. I have made software development my profession starting 2013.

As such, I am a competent and seasoned **PHP** (Symfony / Laravel), **Golang** and **TypeScript / JavaScript** developer that doesn't just implement the logic but ensures that the project is scalable and maintainable in the future.

## DevOps

Running Linux on all kinds of devices, starting at Workstations and Linux but also including Phones, Microcontrollers, Single Board Computers, Routers has always been a hobby of mine.

This makes me a passionate DevOps Engineer with practical knowledge about **Linux**, in both more traditional setups using tools like **Ansible** or **Chef** and more advanced setups using **Docker**, **Kubernetes** and **CI/CD Pipelines**. I will help modernize and streamline your software development workflow and infrastructure management to ensure maximum productivity of developers and high availability of your applications.

# Projects

## Powderguide Conditions Reports

2024 - 2025

Modernization of both the mobile app and the corresponding backend system for the PowderGuide Conditions Reports. The app is used by ski and snowboard enthusiasts to report snow conditions and avalanche danger.

The backend of the application was moved from a mix of a legacy Laravel version and TYPO3 to a modern Laravel version, embedded in (but still architecturally separated from) the Statamic based website. This included porting the TYPO3-based login logic while preserving the existing password hashes to allow a seamless transition for existing users. The mobile app was rebuilt using React and Typescript and ported to a modern version of Ionic.

PARTNER: CROOX GMBH

INDUSTRY: SPORTS

LARAVEL

IONIC

REACT

LIVEWIRE

TYPO3

PHP

TYPESCRIPT

## Biallo Website

2024

Migration of the Biallo website from a legacy in-house system to a Neos-based website, including a large backlog of existing articles and pages. The migration was done using a scraper-based importer, as the database of the legacy system was not easily accessible.

CLIENT: BIALLO & TEAM GMBH

INDUSTRY: FINANCE

NEOS

FLOW

PHP

TYPESCRIPT

FUSION

## Powderguide Website

2023 - 2024

Migration of the Powderguide website from a TYPO3-based system into a Statamic based site. This included the migration of multiple thousands of articles from the old system into the new system using a custom importer to convert the data into the bard format used by Statamic.

PARTNER: CROOX GMBH

INDUSTRY: SPORTS

LARAVEL

STATAMIC

LIVEWIRE

TYPO3

ALPINE

PHP

TYPESCRIPT

## 'ISA' Sales System

2022 – 2025

Modernization of a legacy sales system for a major telecommunications provider from PHP 5.6 to a modern PHP8.4/Symfony 7 application with containerized deployment. The modernization was done step by step in order to ensure the system would remain functional and extendable at all times.

CLIENT: TELE COLUMBUS AG

INDUSTRY: TELECOMMUNICATIONS

SYMFONY

VUE

DOCKER

MYSQL/MARIADB

PHP

TYPESCRIPT

## 'Chameleon' Shopsystem

2020 – 2022

Development of an e-commerce Platform based on Symfony and implementation of client specific logic for multiple clients. This client specific logic contained customization of

- Product-Import from multiple ERP-Systems
- Export of Orders to multiple ERP-Systems
- Search & Filter logic
- Order & Checkout Flow
- Ad optimization including customer-specific newsletters
- Display of products, up & cross-selling

CLIENT: ESONO AG

INDUSTRY: E-COMMERCE

SYMFONY

REACT

MYSQL/MARIADB

ELASTICSEARCH

RABBITMQ

REDIS

MEMCACHED

PHP

TYPESCRIPT / JAVASCRIPT

## Cluster Administration & DevOps

2020 – 2022

Administration of Kubernetes clusters & DevOps pipelines, both for internal and external consumers. This was largely focused on running Kubernetes clusters on cost-effective off-the-shelf hardware without relying on cloud providers to do the heavy lifting.

CLIENT: ESONO AG

INDUSTRY: E-COMMERCE

KUBERNETES

GITLAB-CI

GITHUB ACTIONS

JENKINS

RANCHER (1.X & 2.X)

GALERA

GLUSTERFS

## Conference App

2021 – 2022

Development of an app to allow attendees of hybrid conferences (held both, in person and remote) to get information about the event, participate in talks, connect with other attendees as well as schedule & start 1on1 calls with exhibitors or attendees.

CLIENT: ACADEMIC INSTITUTION

NEST.JS (NODE)

REACT

FLUTTER

JITSI-MEET

MYSQL/MARIADB

WEBSOCKETS

TYPESCRIPT

DART

## Newsletter Customization Service

2020 – 2021

Development of a newsletter customization service for serving individual customers unique product suggestions every time they open the E-Mail. The amount of data processed made this project interesting as there were roughly 200GB of pure id-to-id mappings to be processed regularly.

INDUSTRY: E-COMMERCE

REDIS

RABBITMQ

GOLANG

## 'Toubiz' Tourism System

2017 – 2020

Development of system for managing tourism data and distributing that data to various outputs such as websites, catalogues, Display-Kiosks. The system was built from scratch by a team of 5-7 developers for which I was the technical contact person and decision maker.

CLIENT: LAND IN SICHT AG

INDUSTRY: TOURISM

LARAVEL

VUE.JS

VUE SSR

TAILWINDCSS

NEOS CMS

MYSQL/MARIADB

PHP

HAXE

JAVASCRIPT

## 'Optimizer' Platform

2016 – 2017

Development of a platform for calculating & planning the optimal size and configuration of rooftop solar installations. This included taking into account the coordinates of the house, pulling in historic sunshine data as well as analyzing the users energy consumption.

CLIENT: NIMIUS AG

RAILS

POSTGRESQL

TURBOLINKS

SIDEKIQ

RUBY

Development of an application that helps live-streamers add stream information (such as number of viewers, subscriber goals, chat, ...) to the stream as an overlay. The backend was first built using express.js (Node) while a later version replaced the microservices with go counterparts.

SELF-STARTED PRODUCT

EXPRESS.JS (NODE)

MYSQL/MARIADB

ANGULAR

WEBSOCKETS

GOLANG

TYPESCRIPT