

# Martin Zachoszcz

## Sr. Software Engineer

Passionate Software Engineer with years of experience in creating complex applications, libraries and build tools for developing various software with web technologies.



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## Expertise

- TypeScript
- NextJS
- NodeJS
- ReactJS

## Education

### Masters in Human Factors

Technische Universität Berlin

2014 - 2017

### B.Sc. in Psychology

Friedrich Schiller Universität Jena

2011 - 2014

### Associate Engineer in Data Technology

Siemens Professional Education

2008 - 2010

## Languages

German

English

Polish

## Interests

Sports

Chess

Gaming

## Certificates

AWS Associate Developer

## Work Experience

### Sr. Software Engineer

CARIAD SE (former Carmeq GmbH)

2016 - 2021

### Tasks

- CARIAD is a 100% subsidiary company of the Volkswagen Group and aims for unifying software solutions for its vehicle fleet.
- I started as a working student in this company and found a small team of two members who were starting to develop an SDK that could be used for developing, deploying and testing web apps for the infotainment system of newer vehicles. This was an exciting project so I was happy to be part of it and to work on this together.
- Almost five years later, after getting hired in 2017 and being promoted in 2019, we've built and are maintaining a Volkswagen wide SDK which is today the base for every web app that is developed for Volkswagen, Skoda, Seat or MAN vehicles.
- The SDK consists of many libraries, build tools, desktop tool applications and an extensive documentation about the SDK and the vehicle platform.

### Achievements

- Becoming an expert and first contact for solving problems and creating solutions for the web app platform in vehicles
- Created a concept and developed a white-labeled UI library which can be used to apply distinctive themes for different vehicle models
- Developed a library in plain TypeScript to provide an easy-to-use API for various car functionalities which uses under the hood the REST and WebSocket protocol
- Developed different kind of desktop application with web technologies in order to simplify testing and developing web apps for the vehicle platform

## Work Experience

### Sr. Software Developer (as freelancer)

*Bundesagentur für Migration und Flüchtlinge*

 01/2022 - 09/2022

#### Tasks

- Digitalizing existing paper forms by building a web application written with Angular and its reactive forms module. It should replace the traditional way of exchanging information between different stakeholders.
- Implementing tests and features for micro-frontends; developing scalable, maintainable and reusable components in a library.

#### Achievements

- Created prototype and implemented monorepository solution for micro-frontends and library for easier development
- Refactored micro-frontends by identifying and extracting components that were put in a shared components library
- Extended the library by tested components that are fully accessible

### Sr. Fullstack Coach (as freelancer)

*Spiced Academy*

 10/2022 - 03/2023

#### Tasks

- Preparing and teaching course material on site for students for a 3-month bootcamp
- Accompanying, advising and helping simultaneously 10 students+ planing, structuring and developing their final projects for four weeks using various web technologies

#### Achievements

- Successfully educated and trained students to Jr. Fullstack Developers
- Suggested and implemented curriculum changes based on industry newest standards
- Leded and incorporated the use of a completely new curriculum replacing the outdated one by setting up the infrastructure in GitHub
- First teacher to teach the new curriculum based on the newest industry standards

## Work Experience

### Sr. Software Engineer (as freelancer)

*Project for Spiced Academy*

 04/2023 - 07/2023

#### Tasks

- Complete rewrite of existing spiced-academy.com website
- Content is customizable through CMS
- New given design is implemented
- Separate blog website should be integrated in new website as subpage
- New events page should be implemented where the data is retrieved dynamically from their EventBrite account

#### Achievements

- Analyzed and implemented new architecture of the website within the IT-Infrastructure of Spiced Academy
- Replaced seemingly old technologies like Handlebars and JQuery with a modern techstack: NextJS, TypeScript, Tailwind CSS and GraphQL
- The design was implemented by identifying common components, modules and theme variables and abstracting them in reusable components/modules
- Whole content (texts, images, courses) on website is completely configurable with the CMS of Contentful
- Increased performance metrics and stay on page time
- Improved SEO metrics by using best practices for SEO
- Increased developer experience and productivity for creating new pages and features

## Used Technologies in work related projects

### Developing and maintaining white-labeled UI library with theme management

 2016 - 2021

- Angular 7-11
- SCSS (theme management)
- Jasmine/Karma and Protractor (Unit- & E2e-Tests)

### Developing desktop applications for debugging and testing

 2017 - 2021


- ReactJS
- Angular 7-11
- Electron
- NodeJS

### Managing multiple projects (apps, build tools, libraries, tools) in a mono repository

 2017 - 2021

- Angular CLI
- NodeJS
- NestJS
- Webpack
- Babel
- Docker
- TypeScript compiler

### Developing Micro Frontends & extracting duplicate code in shared library

 01/2022 - 09/2022

- Angular 12-13
- Storybook
- Jest

### Developing various WebApps for the automotive platform

 2016 - 2021

- ReactJS
- Angular 7-11
- NodeJS
- NestJS

### Developing library to abstract car functionalities for easy use

 2017 - 2021

- TypeScript
- RxJS
- NodeJS
- Jasmine

### Improving and teaching curriculum for Coding Bootcamp

 10/2022 - 03/2022

- ReactJS
- VueJS
- NextJS
- NodeJS
- ExpressJS
- TypeScript
- Databases (SQL & NoSQL)
- SocketIO

### Rewrite of spiced-academy.com

 04/2023 - 07/2023

- NextJS (App Router)
- Tailwind CSS
- TypeScript
- GraphQL
- CMS Contentful