

# 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

- Web Technologies
- TypeScript
- JavaScript
- Frontend
- Backend

## Certificates

AWS Associate Developer

## 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

Music

## Employee Experience

### Sr. Software Engineer

2016 - 2021

*CARIAD SE (former Carmeq GmbH)*

- Spearheaded the development and maintenance of a comprehensive SDK for Volkswagen Group's vehicle infotainment systems, overseeing the integration and management of over 50 diverse packages, including libraries, build tools, desktop applications for testing & debugging, and best-practice web apps. Managed large-scale projects within a monorepo framework, implementing CI/CD practices to streamline bi-weekly release processes for these components, thereby enhancing software reliability and maintaining rigorous documentation standards.
- Crafted and architected a dynamic, theme-driven UI library with white-labeled, functional components. Designed to automatically adapt to various brand themes like Golf, ID3, Skoda, or Seat based on the vehicle model, ensuring brand consistency and enhancing user experience across different vehicle models. Emphasized scalable, high-quality front-end components with robust unit and E2E testing.
- Merged ReactJS, NodeJS, and Electron to build advanced desktop applications, simulating car environments and interfacing with vehicle microservices for robust web app testing.
- Implemented a NodeJS-based communication library using WebSocket and REST, and architected microservice-friendly APIs with TypeScript and RxJS, streamlining data handling and app interaction in vehicle services.

### Used Technologies:

TypeScript

JavaScript

NodeJS

SQL

NoSQL

ReactJS

Angular 7-12

RxJS

SCSS

Web Components (Stencil)

ExpressJS

NestJS

Jasmine & Karma

Protractor

Jest

Electron

Angular CLI

Webpack

Babel

Docker

Confluence API

Jenkins

## Freelancing Experience

### Revamping Spiced Academy's Online Platform

📅 04/2023 - 07/2023

[spiced-academy.com](https://spiced-academy.com)

- Led a complete overhaul of the spiced-academy.com website, implementing a new, modern design with enhanced functionality and user experience.
- Integrated a dynamic CMS for content customization and streamlined content management, and incorporated a separate blog and dynamic events page synchronized with EventBrite.
- Optimized website performance and SEO, ensuring fast load times, improved search engine rankings, and an overall increase in user engagement and satisfaction.

*Used Technologies:*

TypeScript JavaScript NextJS NodeJS GraphQL Vercel TailwindCSS NoSQL  
Contentful API EventBrite API TeamTailor API RESTful API Google Analytics

### Mentor and Coach for Fullstack bootcamps

📅 10/2022 - 03/2023

*Spiced Academy*

- Crafted and delivered comprehensive, hands-on course material for a dynamic 3-month fullstack bootcamp, focusing on real-world application development.
- Guided and mentored over 10 students in developing intricate final projects, providing expert advice on project planning, structuring, and execution using a wide array of web technologies.

*Used Technologies:*

TypeScript JavaScript NodeJS ReactJS VueJS ExpressJS NextJS Redux SQL  
NoSQL React Native Svelte WebSocket Styled Components

### Digitalizing paper forms with micro frontends

📅 01/2022 - 09/2022

*Bundesagentur für Migration und Flüchtlinge*


- Digitalized paper forms into an Angular-based web application with reactive forms, improving stakeholder information exchange.
- Architected a monorepository framework for micro-frontends with Nx Workspaces, elevating project synergy and optimizing development processes.
- Enhanced micro-frontends with tests and new features; crafted a library of scalable, reusable components for streamlined development.

*Used Technologies:*

TypeScript JavaScript SQL Angular 12-14 NodeJS NgRx RxJS Angular Material  
Nx Workspaces Cypress Jest Storybook

## Current Side Project

### Custom GPTs

 01/2024

#### Video Summarizer GPT

- Utilizing openAIs custom GPTs by giving specific instructions and accessing my AWS infrastructure to retrieve the required data
- Features:
- Summarizes any YouTube video with captions
- Includes additional metadata like video title, description, and likecount
- Retrieves additionally relevant comments that might be interesting

#### *Used Technologies:*

Python

AWS CloudFront

AWS Route 53

AWS API Gateway

AWS IAM

AWS Lambda

AWS Lambda Layers

AWS CloudWatch

AWS CloudFormation

AWS IaC

Prompt Engineering

#### *Personal Trainer GPT (in progress)*

 01/2024

- Utilizing openAIs custom GPTs by giving specific instructions and accessing my AWS infrastructure to retrieve the diet and training based data of a user
- Uses OAuth to identify a user
- User can provide initial fitness-related data of them and their desired goals
- GPT can give advice on diet and training based on the provided data
- User can update their data and GPT will give new advice based on the updated data
- Data is stored in AWS infrastructure

#### *Used Technologies:*

NodeJS

AWS CloudFront

AWS Route 53

AWS API Gateway

AWS IAM

AWS Lambda

AWS DynamoDB

AWS S3

AWS CloudWatch

AWS CloudFormation

AWS IaC

Prompt Engineering