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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Berlin, Germany 📍

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

- 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

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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 DynomaDB` `AWS S3` `AWS CloudWatch` `AWS CloudFormation` `AWS IaC` `Prompt Engineering`