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

- TypeScript
- JavaScript
- NodeJS
- React

Certificates

AWS Associate Developer

Fducation

Masters in Human Factors

Technische Universität Berlin

2014 - 2017

B.Sc. in Psychology

Friedrich Schiller Universität Jena



Associate Engineer in Data Technology

Siemens Professional Education

2008 - 2010

Languages



English



Polish



Interests

- **₩** Sports
- **≛** Chess
- Gaming

Employee Experience Sr. Software Engineer

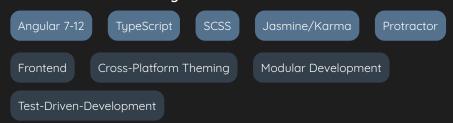
1 2016 - 2021

Key Responsibilities:

- Led the development and maintenance of a comprehensive software development kit (SDK) for vehicle infotainment systems across the Volkswagen Group.
- Spearheaded the creation of a white-labeled UI library, enhancing brand identity and user experience across various vehicle models.
- Played a pivotal role in architecting and implementing scalable and maintainable software solutions, improving development processes and product quality.
- Acted as a primary problem-solver and innovator for web app platforms within vehicles, leveraging advanced technologies and methodologies.

Selected projects:

Whitelabeled UI Libraru



Developed a dynamic, theme-driven UI library, ensuring brand consistency across Volkswagen Group's vehicle fleet. Focused on robust unit and E2E testing to guarantee high-quality, scalable frontend components.

Desktop Applications for Debugging and Testing



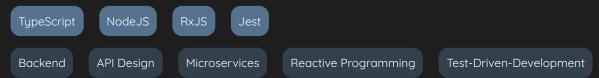
Engineered advanced desktop applications using ReactJS and NodeJS with the Electron framework. These applications interfaced with vehicle microservices, simulating complex car environments for efficient web app testing.

Low-Level Communication Library using ViWi Protocol



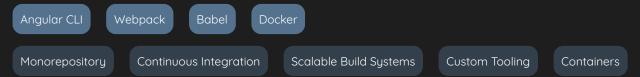
Implemented a low-level communication client-side library using NodeJS, ExpressJS, and TypeScript, accessing servers using the ViWi protocol for efficient HTTP and WebSocket communications. This system revolutionized data handling in vehicle services, exemplifying cutting-edge IoT integration.

Car Functionality Abstraction Library



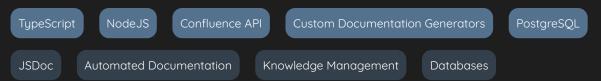
Architected a TypeScript-based library with RxJS, abstracting car functionalities into accessible microservices. This innovative API design facilitated seamless interaction with various car features, enhancing app development efficiency.

Mono Repository Management



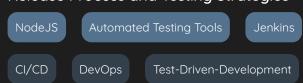
Orchestrated multiple large-scale projects within a mono-repository setup, incorporating Angular CLI, Webpack, and Babel. Developed custom Angular Builders and Schematics, akin to Nx, tailored for automotive environments.

Automated Documentation



Innovated an automated documentation system, integrating JSDoc with custom tooling to generate comprehensive, structured content for Confluence and a dedicated web application. This solution ensured up-to-date, accessible documentation for every release.

Release Process and Testing Strategies



Managed a complex bi-weekly release process for over 60 libraries, encompassing desktop tools, test web apps, and comprehensive documentation. Ensured reliability through a meticulous testing, fully automated in CI/CD pipelines.

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Freelancing Experience

Digitalizing paper forms with micro frontends

1 01/2022 - 09/2022

<u>Key Responsibilities:</u>

- 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.

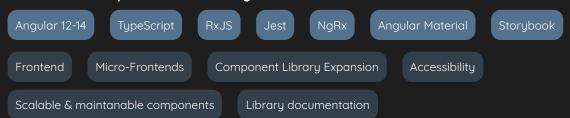
Tasks:

Monorepository for Micro-Frontends

Nx Workspaces	Noc	deJS	Webpack	Jest		Cypress	PostgreSQL	
Architectural Design		DevOps Integration		Micro-Frontends			Monorepository	Scalable Build Systems
Databases								

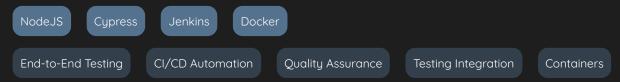
Led the design and implementation of a monorepository architecture tailored for micro-frontends, utilizing Nx Workspaces for enhanced project orchestration and workflow efficiency. Emphasized a seamless development experience by integrating streamlined build processes with Webpack, resulting in a robust, highly optimized, and future-proof frontend ecosystem.

Feature Development and Library Enhancement for Micro-Frontends



Contributed to the development of key features in a micro-frontends-based application, using Angular for front-end efficiency and consistency. Focused on expanding and refining an accessible library of reusable components, enhancing the application's modularity and maintainability.

End-to-End Testing of defined feature set



Developed comprehensive end-to-end testing for the micro-frontend application, leveraging Cypress for realistic user interaction simulations. Successfully integrated these tests into the CI/CD pipeline, ensuring automated test execution for each pull request and deployment.

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Mentor and Coach for Fullstack bootcamps

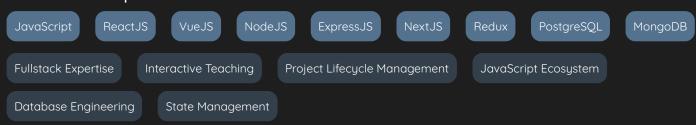
iii 10/2022 - 03/2023

Key Responsibilities:

- 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.

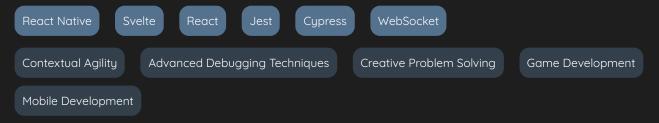
Tasks:

Fullstack Development Coach and Mentor



Orchestrated an immersive learning experience for bootcamp students, covering both frontend and backend technologies over a rigorous 3-month period. This comprehensive program was meticulously crafted to bridge the gap between theoretical knowledge and practical skill, equipping students with the tools and insights necessary to thrive in today's dynamic tech landscape.

Fullstack Project Mentor



Empowered students in conceptualizing and developing complex fullstack applications, fostering a deep understanding of technology integration and real-world problem solving. My guidance was instrumental in nurturing their technical acumen and creativity, enabling them to craft innovative solutions and confidently tackle the challenges of modern web development.

Program Development Lead



Initiated the adoption of a modern curriculum, aligning educational content with the latest industry trends. Played a key role in the infrastructure setup on GitHub and became the inaugural instructor for this modernized syllabus.

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Revamping Spiced Academy's Online Platform

<u>spiced-academy.com</u>

iii 04/2023 - 07/2023

Key Responsibilities:

- 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.

Tasks:

Dynamic CMS Integration

Contentful API	GraphQL		EventBrit	e A	PI		
CMS Customization	Dynami	c Content		Content Workflow Automation			

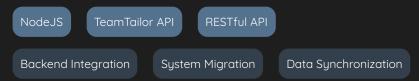
Engineered a flexible content management system, allowing for dynamic content updates and streamlined content workflows.

NextJS Frontend Development



Developed a responsive and modern web interface using NextJS & TailwindCSS, incorporating custom content from the CMS.

Backend Integration and Migration



Facilitated seamless backend integration, aligning website interactions with the existing system and transitioning to a new backend provider.

Optimizing Performance and SEO



Implemented performance optimizations including image handling, and automated SEO enhancements like sitemap generation.