

Andrea Zakovski

Experienced Full-Stack Engineer

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Relevant Experience

Lead Full-Stack Engineer · **Better Coaching** Mar 2024 — Present

- Led the rebuild of a multi-tenant legacy PHP + MongoDB platform into a modern **React** web app and **React Native** mobile app, React Native mobile app, and **Node.js/Express** REST API
- Rebuilt the legacy PHP platform into a modern React web app, React Native mobile app backed by a **Node.js/Express** REST API, significantly improving stability and development speed
- Designed and implemented **Supabase Auth** to replace a fragile custom authentication system, improving security and reliability of login/session handling and centralising email flows (sign-up confirmation, password reset, etc.)
- Introduced **Redux Toolkit & RTK Query** as the standard data layer on the frontend, using caching-first patterns to simplify data fetching and reduce duplicate network requests
- Built the **push notification system** for the mobile app using **Firebase Cloud Messaging**, keeping coaches and players informed about upcoming sessions, changes and important updates
- Designed and shipped advanced coaching tools, including a **drag-and-drop drill builder** (players, equipment, pitch types/sizes, drawing tools) with image/video export, a shared **media library**, and rich **CSV/XLS/PDF import-export** flows for planning and reporting
- Currently leading the migration from **MongoDB** to **PostgreSQL on Supabase**, including a **redesign of the multi-tenant database schema** to improve data consistency, performance and support for future product features

Lead Full-Stack Engineer · **Next11** December 2022 - 2024

- Developed the **coach tablet app** in **React Native/TypeScript**, connecting over local **Wi-Fi** to the Edge device to receive real-time tracking data for up to 25 players per session
- Implemented an **offline-first data capture and sync** flow using **Firebase/Firestore offline persistence** (store-and-forward), so all session data is stored locally and reliably uploaded once an internet connection is available
- Built the **player app** where each player can log in, view performance **graphs/charts**, compare their metrics with team averages, and receive **Firebase-based notifications** for upcoming sessions and updates
- Collaborated with hardware and data teams to integrate sensor and Edge data into the apps and troubleshoot issues found during on-field testing

Full-Stack Engineer · **Loni.ai** November 2020 - December 2022

- Led front-end development for web and mobile apps using **React/TypeScript** and **React Native**, from architectural decisions and component design through to implementation and delivery
- Designed and implemented features **end-to-end**, including defining API contracts and **database structure** together with the backend team
- Introduced **Redux Toolkit & RTK Query** for state management and data fetching, with a focus on **caching** to reduce duplicate requests, improve performance and lower API-related bugs
- Mentored and assisted other developers, helping them design solutions, review their work and grow into more independent contributors

Full-Stack Engineer · **MusikDaheim** June 2020 - October 2020

- Implemented a **video conferencing feature** using **WebRTC, Node.js** and **WebSocket**, enabling real-time audio/video communication between users
- Developed and maintained a **fully responsive UI** so the application works smoothly across desktop and mobile devices
- Worked across both frontend and backend to integrate the video feature into existing flows and troubleshoot issues in real-time sessions

Skills

Programming Languages

JavaScript (ES2015+) / TypeScript, PHP, SQL

Front-End Technologies & Frameworks

React, Next.js, React Native, HTML, CSS (SCSS, Flexbox, CSS Grid), Redux, Redux Toolkit, RTK Query

Backend & API Technologies

Node.js, Express.js, RESTful APIs, PHP REST APIs

Database & BaaS

PostgreSQL, MongoDB, Supabase, Firebase

Tools

Git, GitHub, Docker

Education

University American College Skopje

Bachelor in Business Administration – Finance and Investments

Front-End Engineer · **Werbezeichen** November 2019 - June 2020

- Refactored shared **React/TypeScript** components to improve readability, reusability and consistency across the application
- Fixed front-end bugs and UI issues based on tickets and QA feedback, helping stabilise core user flows
- Implemented smaller features and UI improvements in line with existing patterns and design guidelines

Front-End Engineer · **Digital Present** September 2018 - November 2019

- Built and maintained multiple e-commerce web applications for different clients using **React** and **Next.js**
- Implemented fully responsive UIs for product listings, carts and checkout flows, ensuring a consistent experience across desktop and mobile
- Ensured **cross-browser compatibility** and pixel-perfect implementation from design hand-offs
- Collaborated with other developers through code reviews and regular stand-ups to keep changes aligned and maintain code quality
- Optimised user experience through clear navigation, reusable components and performance-conscious front-end implementation
- Applied **SEO** best practices (semantic HTML, meta tags, clean URLs) in collaboration with designers and marketing teams