Valentin-Marko Cimpan

Full-stack developer

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Introduction

I am a full-stack developer with experience building modern web applications using both monolithic and microservice architectures. On the front end, I specialize in React and Next.js, working with TypeScript, JavaScript, Redux (and Redux Toolkit), React Query, and styling libraries such as Tailwind CSS and Material UI to create responsive, accessible, and high-performance user interfaces. I've collaborated closely with UI/UX designers via Figma and Zeplin, turning design systems into polished interactive components. On the backend, I've built and maintained APIs and services using Node.js and NestJS, working with relational databases like PostgreSQL and NoSQL databases like MongoDB. I have experience building event-driven microservices using RabbitMQ as a message broker, ensuring scalability and modularity for complex systems.

Experience

Endava: Full-time Employee • Full-stack Developer

Jun 2025 - Prezent

Insurance Application

The goal of this project was to refactor and enhance insurance applications within a monorepo, supporting both brokers and individual users in creating, managing, and upgrading policies.

• Designing a modular React architecture, creating reusable components across multiple applications in the monorepo.

• Refactoring state management by migrating from traditional Redux to RTK Query for more efficient API handling and data fetching.

• Developing new user-focused features to improve policy management, creation, and upgrades.

React MaterialUi Redux toolkit RTK Query

Contractor • Full-stack Developer

Feb 2019 - Jun 2025

Event Management Application

• Designed and developed a comprehensive event management platform supporting distinct admin and client roles.

• Implemented secure business onboarding for administrators with custom registration inputs, including business email, phone, and detailed profile metadata.

• Enabled admins to manage multiple rentable event locations, each with configurable names, descriptions, addresses, and capacities.

• Built intuitive CRUD interfaces for creating and editing service menus, which include pricing per guest, descriptions, and associated documents.

• Added offer creation functionality, combining date, location, menu, and required documentation.

• Developed a centralized admin dashboard for reviewing client booking requests, proposing alternative dates, and tracking engagement.

• Integrated a dedicated client profile page with request management, editable entries, and note-keeping for personalized service.

• Engineered an interactive calendar synchronized with client reservations and a real-time notification system (in-app, SMS, and email).

• Delivered a client portal for viewing offers, modifying guest details, submitting booking requests, and managing event documents.

• Implemented a tiered admin access model, supporting trial, premium, and expired trial accounts. Admins in trial or premium mode had full feature access, while expired or non-premium users experienced restricted functionality.

Next.js Axios HTTP TypeScript Nest.js MongoDB Tailwind

Backoffice Application

The objective of the application was to empower internal teams such as product leadership with a centralized tool for monitoring monetization patterns and user behaviour across multiple applications within the organization. Key goals included:

• Designed and developed scalable analytics dashboards to monitor user behaviour and monetization across multiple applications.

• Delivering actionable insights on revenue growth and feature utilization over time.

• Enabling comparative analysis of user activity across different apps and functionalities.

• Reducing the reliance on manual data collection or external BI tools by building an internal, purpose-built solution.

React ChartJS react-charts D3.js MaterialUI Node.js Javascript MongoDB

Social Media Application

- Developed a responsive and dynamic platform that enables users to upload media, crop and trim video content, and exchange messages. Users could access the platform via a custom link or by scanning a QR code, ensuring that all uploaded media and messages were directly associated with their respective events. The goal was to deliver a seamless and engaging media experience while maintaining high performance and scalability.

React MaterialUi MongoDB Node.Js Google Cloud Storage ffmpeg cropperjs uppy

E-commerce Application

The goal of this project was to develop a full-featured e-commerce rental platform that connects rental providers with renters in need of short-term access to products like bicycles, tools, and equipment. The application enables two distinct user roles:

• Rental Providers, who can list, manage, and rent out inventory;

• Renters, who can browse listings, check availability, and communicate directly with providers.

• Designing a seamless user experience for item discovery, filtering, and rental booking.

• Implementing real-time features such as chat, calendar availability, and inventory tracking.

• Building a scalable backend using a microservices architecture to handle user management, rentals, and messaging reliably.

• Ensuring platform integrity with authentication, validation, and a review system to build trust between users.

• Integrated user feedback and reviews system, enhancing trust and transparency in transactions.

Next.js Typescript MaterialUi React-Query NodeJS MongoDB RabbitMQ Firebase Express

Charger Auto Application

The mobile application was designed to enhance the EV charging experience by allowing users to scan electric vehicle chargers and access or manage detailed profiles for each charging session. The app enables:

• Real-time tracking of energy usage (e.g., kWh consumed, charge duration)

• Remote start and stop control of charging sessions

• Historical data logging per charger

• A user-friendly interface for managing and reviewing past charging activity

React Native SignalR WebSockets

Psychology Client Tracker Application

- Developed a React Native app for therapists to manage and track client progress, with features for session scheduling, mood tracking, and notes logging.
- Integrated Firebase for real-time data synchronization, enabling seamless collaboration between therapists and clients and ensuring up-to-date session records.

React Native Firebase

E-commerce Application

The goal of this project was to create a localized digital marketplace that empowers small-scale producers such as farmers and artisans to sell their goods (like honey, fruits, and vegetables) directly to consumers. The platform supports two user roles:

• Producers who can list products, and also purchase from others.

• Clients who can browse and buy goods but do not post products.

• Creating a seamless shopping experience with product discovery via filters, categories, and reviews.

• Providing real-time messaging and geolocation features to build trust between clients and producers.

• Managing subscription-based access for sellers, with Stripe integration and automated alerts for upcoming or overdue payments.

React Redux TypeScript Firebase Google Maps API Express NodeJS Stripe PostgreSQL Sequelize

Health Application

This project involved a full redesign of a health data platform focused on enabling researchers and clinical teams to design studies, collect diverse datasets, and perform real-time statistical analysis.

• Redesigned a wide range of React components to align with new UX/UI standards, enhancing usability, responsiveness, and accessibility.

• Translated high-fidelity mockups into visually engaging and functional UI elements in close collaboration with UX designers.

• Improved layout performance and consistency, ensuring a smooth experience across devices and screen sizes.

React Redux Typescript

Education

University Politehnica Timisoara

- Bachelor's degree in Automation and Computer Science

"Grigore Moisil" High School

- Mathematics and Computer Science