TOMASZ KOSZKUL

SENIOR SOFTWARE ENGINEER & TECHNICAL CONSULTANT | FULL-STACK PRODUCT ENGINEERING

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PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Consultant with 10+ years of experience building, modernising and taking ownership of software products. Strong in React, Vue and TypeScript, with extensive experience building and modernising production applications across both frontend ecosystems and a practical understanding of their architectural trade-offs. Hands-on backend experience across C#/.NET, Node.js and SQL, including four years owning both the Vue and C#/.NET sides of a backend-driven enterprise application. I specialise in understanding complex existing systems, simplifying them and delivering maintainable solutions across frontend and backend boundaries. Comfortable taking technical ownership, mentoring engineers and working directly with product and business stakeholders. My guiding principle: the better you understand a system, the less code you need to write.

CORE SKILLS

Full-Stack & Backend: C#/.NET, Node.js, Express.js, REST APIs, Entity Framework, SQL Server, MySQL, SignalR, authentication & permissions design

Frontend: React, TypeScript, JavaScript (ES6+), Vue 2/3, Redux, Redux-Saga, Context API, HTML5, CSS3, SCSS, responsive design

Architecture: Backend-driven UI architecture, reusable component systems, API contract design, state management, performance optimization, legacy modernization

Quality & Delivery: Jest, React Testing Library, Cypress, Playwright, Git, CI/CD, Docker, Azure DevOps, code reviews

Additional: AngularJS (commercial), PHP/WordPress, Flutter (mobile), Vuex, Pinia, Bootstrap

AI-assisted Engineering: GitHub Copilot, Codex, JetBrains AI, agentic development workflows

SELECTED ENGINEERING IMPACT

- Owned both sides of a backend-driven enterprise application (Vue + C#/.NET + SQL Server) for Caterpillar, extending backend configuration, controllers and services to drive frontend behavior - not just consuming an existing API.
- Led an incremental Vue 2 to Vue 3 migration completed in under 3 months with zero delivery downtime, while consolidating duplicated components and reducing the frontend codebase by ~50%.
- Took ownership of an undocumented multi-app ecosystem (web, mobile, backend) after the previous team left, and rebuilt it into a maintainable, delivery-ready system.
- Delivered real-time React and .NET collaboration features, including synchronized whiteboards and video communication.

PROFESSIONAL EXPERIENCE

Founder / Technical Consultant - Happy Devs

Poland / Remote | Independent consultancy | 2017 - Present

- Provide hands-on software engineering and technical consulting across contract engagements, taking ownership from system discovery and client communication through architecture, implementation and delivery.

Technical Consultant & Software Engineer - Animality Foundation

Wroclaw, Poland | Remote | Contract | Mar 2026 - Present

- Took ownership of an undocumented product ecosystem after the previous team left, reconstructing four web and mobile applications and establishing reliable Git and Docker workflows.
- Translated incomplete business requirements into 200+ actionable engineering tasks and a practical delivery roadmap.
- Delivered production improvements across web, mobile and backend integrations, including subscriptions, invoicing and application stability; launched the Flutter app to the Apple App Store.

Lead Software Engineer - SpecCheck (Caterpillar)

Jacksonville, Florida, USA | Remote | Contract | Mar 2022 - Mar 2026

- Owned full-stack modernization of a backend-driven enterprise application across Vue (2 to 3), C#/.NET and SQL Server - the UI was driven by backend-defined configuration, so meaningful frontend improvements required extending the backend contract.
- Extended C#/.NET controllers, services and backend meta-providers (using Entity Framework) to describe frontend layout, permissions, modal configuration and available actions, eliminating hardcoded frontend logic.
- Designed the API contract between backend and frontend, including link/relation metadata and HTTP method resolution, reducing hardcoded routes and business rules in the client.

- Planned and led an incremental Vue 2 to Vue 3 migration (completed in under 3 months, zero delivery downtime) using compatibility mode, reversible rollout controls and staged QA.
- Consolidated duplicated components into a reusable, configuration-driven architecture, cutting the frontend codebase by ~50%.
- Identified and removed unnecessary backend/database operations; one documented optimization made a key interaction ~10x faster.
- Acted as primary architecture decision-maker: engineering standards, code reviews, and coordination across frontend, backend, database and QA.

Senior Frontend Developer - Xcelirate

Singapore / Barcelona, Spain | Remote | Contract | Apr 2020 - Mar 2022

- Joined an established React and Redux product, quickly mastering its architecture and becoming a key contributor to frontend delivery and quality.
- Designed and built reusable React components and scalable Redux state management for a growing, production social platform.
- Improved frontend maintainability and rendering behavior through consistent component patterns, disciplined data flow and performance-focused problem solving.
- Collaborated daily with Product, UX designers and backend engineers to deliver responsive, production-ready user experiences.

Frontend Engineer - Xcelirate

Singapore | Remote | Contract | Apr 2019 - Mar 2020

- Delivered a complete UI redesign for a live product while maintaining ongoing feature delivery and production stability.
- Implemented an incremental rollout that let users switch between the existing and redesigned experiences during migration.
- Worked closely with designers and backend developers to ensure cross-browser consistency, responsive behavior and a smooth transition.

Full Stack Software Engineer - Desap

Manchester, United Kingdom | Remote | Contract | Jun 2019 - Apr 2020

- Built full-stack features for a real-time learning platform using React, .NET, SignalR and REST-style integrations.
- Developed a synchronized collaborative whiteboard and a responsive coordinate-mapping system that preserved drawing accuracy across screen sizes and aspect ratios.
- Integrated Sinch video communication and repaired a browser-compatibility defect inside a compiled third-party library, avoiding a costly platform migration.

Software Engineer - bet365

Manchester, United Kingdom | On-site | Full-time | Apr 2017 - Jun 2018

- Developed frontend solutions for high-traffic web applications with a strong focus on performance, maintainability and cross-browser behavior.
- Contributed to a custom framework for modernizing legacy applications and built complex interactive UI components beyond standard browser behavior.
- Worked in a mature engineering environment using automated testing, structured problem solving and peer code review.

EARLIER EXPERIENCE

Frontend Software Developer - Electrika Ltd

Manchester, United Kingdom | On-site | May 2016 - Jun 2017

- Built and maintained production solutions using AngularJS, JavaScript and Umbraco CMS.

Web Developer - Bounce Castle Network

United Kingdom | On-site | Oct 2015 - May 2016

- Built responsive interfaces with HTML, CSS, Bootstrap and JavaScript.

EDUCATION

BSc Computer Engineering - Wroclaw University of Technology