

# DMYTRO MAKARUK

Senior Full-Stack Developer

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## EXPERIENCE

### B2B parts platform for an industrial-equipment manufacturer

**Client:** confidential (industrial printing-press manufacturer; engaged via Unit-M, Mülheim an der Ruhr) · **Role:** Lead Developer · **12.2024 – 05.2026**

**PROBLEM.** Industrial printing presses run at customer sites worldwide, and when a part needs replacing, the operator needs it fast. Before this platform, ordering went through the manufacturer's sales team, who then had to identify the exact part for that specific machine. That was slow and easy to get wrong.

**WHAT I BUILT AND LED.** A self-service B2B platform. The operator looks up the right part for their specific machine: by serial number, by the installed configuration, or by clicking on an interactive sketch of the press. They then see the contract price negotiated with their company and order directly. Live stock, pricing, and order status all come from the customer's ERP. Corporate customers can have subsidiaries with their own users and approval rules.

**SCALE.** ~140,000 products, 2,000+ catalogs, 800+ registered industrial presses, ~1,000 active customer organizations.

**RESPONSIBILITIES.** Lead Developer. I own the architecture, the custom features (catalog import, pricing, the machine model, ERP integration, the interactive storefront), and the release and quality process; I also review and mentor work from a small team.

### AI-driven Safety Data Sheet platform (SDB-Scanner)

**Client:** Umwelt und Unternehmensberatung Schwann (chemical-consulting firm) · **Role:** Lead Developer · **10.2022 – 02.2024** · **modernization phase 03.2025 – 04.2026**

**PROBLEM.** Safety officers and chemical consultants spend hours per document pulling structured data out of regulatory PDFs. REACH/CLP Safety Data Sheets are 16 chapters long, and every field has to be checked. The manual workflow was slow and easy to mistype.

**WHAT I BUILT AND LED.** A platform that pipes each PDF through an external AI service, normalizes the response into a structured form chapter by chapter, and lets safety officers verify the result against the source. An integrated PDF viewer highlights the exact region on the page each extracted value came from, so the officer can compare the AI's answer to the original at a glance. Progress is shown live, the interface is bilingual (German and English), and the platform is covered by automated end-to-end tests.

**RESULT.** **6–8x faster than the previous manual process**, with almost no manual editing left.

**RESPONSIBILITIES.** Owned both the backend service and the web frontend, from first prototype through current production. Designed the AI ingestion workflow, the validation rules, and the source-document cross-referencing UX that lets users verify each value against its PDF region. Led the 2025–2026 modernization phase.

## ABOUT

Senior full-stack developer, freelance since 2010. Most of my clients are European, in e-commerce, industrial businesses, and consulting. Most engagements run for years rather than months. I'm usually the Lead Developer: responsible for the platform from the first build onward, and for the small team that grows around it.

## WHAT I DO

- **B2B e-commerce platforms for industrial manufacturers and distributors.** Large parts catalogs, customer-specific pricing, corporate buyer accounts, integration with the customer's ERP.
- **AI-driven document processing.** Automated reading, validation, and tracking of complex regulatory documents.
- **Compliance and information-management platforms** for regulated industries: chemicals, occupational safety, product data.
- **Multi-year Lead Developer engagements.** Architecture, small-team leadership, and in-place upgrades that don't take the platform down.
- **Full-stack delivery.** Backend services and APIs, and modern web frontends.

## KINDS OF PROJECTS

- B2B spare-parts and aftermarket marketplaces for industrial OEMs (printing presses, machine tools, motion systems).
- Internal business platforms for regulated industries.
- AI-assisted document workflows that replace slow manual data entry.
- Catalogs in the hundreds of thousands of items, multi-tenant corporate accounts, live ERP integration.
- Migrations and major platform upgrades on live production systems, carried out without service interruption.

## B2B shop for a motion-systems manufacturer

**Client:** confidential (motion-systems manufacturer; engaged via Unit-M, Mülheim an der Ruhr) · **Role:** Lead Developer · **two engagements: 09.2021 – 02.2023 and 06.2024 – 01.2025**

**PROBLEM.** The client needed a modern B2B shop for spare parts and motion-system components. Years later, they needed a major platform upgrade, but the live shop couldn't be taken offline for it.

**WHAT I BUILT AND LED.** Lead Developer on both engagements: the initial delivery of the B2B shop, then a later in-place platform upgrade performed without any service interruption visible to customers. The project was later published by the platform vendor as a customer success story.

## ChemScan® — HSE and information-management platform

**Client:** Schwann (chemical-consulting firm; initial build at Welance, Berlin) · **Role:** Developer / Senior Developer · **06.2015 – 08.2017 and 01.2021 – 02.2023**

**PROBLEM.** A chemical-consulting firm needed a single internal platform to manage occupational-safety compliance, regulatory document workflows, and product and document master data. The previous setup was a patchwork of separate tools and spreadsheets, all needing to be reconciled by hand.

**WHAT I BUILT.** Designed and built the initial platform: workflow-driven processes, fine-grained access control, and a document-management subsystem. Years later I returned to extend it with additional HSE and product-data functionality for occupational-safety standards.

## EARLIER ENGAGEMENTS

- **B2B e-commerce, high-load catalog** (*Madia B.V., Eindhoven · 08.2017 – 04.2018*). Backend work on a B2B platform with about 300,000 products, fed by continuous data-streaming pipelines into the catalog.
- **Microservice architecture — proof of concept** (*KW-Commerce, Berlin · 05.2018 – 08.2018*). Designed and built a refactoring of core business processes into independent services.
- **Product-information management (PIM) with a flexible attribute model** (*TWT Interactive, Düsseldorf · 03.2017 – 11.2017*). The customer's product team can add new attribute groups themselves, without involving developers.
- **Magento e-commerce engagements** (*Madia B.V. and Welance, 2013 – 2017*): *maaltijdservice.nl* (custom checkout and order export), *skil.nl* (international shop across 20+ store views, with a custom content-management extension), and *tunero.de* (sole backend developer on a major platform upgrade with custom URL routing, SEO, and 200,000+ products).

## EARLIER EXPERIENCE

- **PHP Developer** · DELFI-Software GmbH · 11.2007 – 05.2010
- **Delphi Developer** · KTC, Kharkiv, Ukraine · 04.2002 – 07.2004

## TECHNOLOGIES

**Backend:** PHP (Symfony, Laravel), Node.js (Express, NestJS), TypeScript

**Frontend:** Vue 3, Nuxt, modern CSS frameworks

**E-commerce platforms:** OroCommerce (Community & Enterprise), Shopware, Magento

**Data & infrastructure:** PostgreSQL, MySQL, Elasticsearch, Redis, MongoDB, RabbitMQ, Docker, Google Cloud Platform

**AI integration:** external classification APIs, asynchronous document-ingestion workflows

**Testing:** PHPUnit, Behat, Cypress, Playwright

## LANGUAGES

- **German** — Fluent
- **English** — Fluent

## EDUCATION

- **Hochschule für Technik und Wirtschaft Berlin** · 2010 – 2012 · Studies, not completed.
- **Kharkiv National University of Radioelectronics** · 1999 – 2002 · Studies, not completed.