

# Marcin Kozak

Senior Full-Stack Engineer / Developer

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## PROFESSIONAL SUMMARY

Programming is my craft and my pleasure rolled into one. What I find most rewarding is discovering elegant solutions - ones that are optimal, clean, easily testable, and intuitive for any developer who looks at the code. Before I write a single line, I make sure I understand the business intent - only when I have the full picture of what and why we're building can I design something that truly works.

**AI:** I use opencode with cost-effective language models for prototyping, code exploration, debugging, and TDD test generation. AI handles routine tasks while I focus on architecture and quality.

## EXPERIENCE

### Senior Full-Stack Developer @ Polcar PPH

2018 - Present

Lead architect and developer of Polcar's first web-based B2B e-commerce platform (automotive parts), serving a catalog of 100,000+ products and handling ~40% of company revenue. The platform ([catalog.polcar.com](https://catalog.polcar.com)) replaces a previously desktop-only solution — migration in progress. Development and maintenance of smaller landing pages for in-house brands.

- ▶ Lead architect and developer of the B2B e-commerce platform — the company's first web application
- ▶ Launched platform handling 100,000+ product catalog and ~40% of company revenue, migrating from desktop to web
- ▶ Optimized data delivery from complex, heavy source databases — caching layer, query optimization, DB structure for read performance
- ▶ Data integration from internal systems, normalization and data cleaning
- ▶ Image delivery optimization with protection against unauthorized duplication
- ▶ Internal CLI tool in .NET/C# for MS SQL to MySQL migration with schema transformation
- ▶ Translation repository management system and language file tooling

### Senior PHP Developer @ ModulesGarden

2014 - 2018

Developed ecosystem modules for the WHMCS hosting management platform. Worked on custom solutions including an internal project management tool, e-commerce integrations (Magento 1 cart, Magento 2 payment gateway), and a new system serving as a WHMCS alternative. Contributed to the official [modulesgarden.com](https://modulesgarden.com) company website backend.

- ▶ WHMCS module development and alternative WHMCS system
- ▶ E-commerce integrations (Magento 1 cart, Magento 2 payment gateway)
- ▶ Internal project management tool
- ▶ Backend of [modulesgarden.com](https://modulesgarden.com) company site

### Frontend Developer (Freelancer) @ Self-employed

2005 - 2014

Built websites from design mockups using HTML, CSS, and JavaScript. Collaborated with interactive agencies and direct clients.

- ▶ Delivered 30+ websites and landing pages
- ▶ Collaborated with advertising agencies
- ▶ Managed projects and budgets independently

## SKILLS

**Frontend:** Vue.js 3 · Composition API, Pinia, TypeScript, JavaScript (ES6+), HTML5 / CSS3, Vite, Fetch API / Axios, Browser APIs, Quasar Framework 2, Nuxt.js, Tailwind CSS

**Backend:** Node.js, PHP, Laravel, C# / .NET, REST API

**Databases:** MySQL / MariaDB, MS SQL, Redis

**DevOps & Tools:** Docker / Docker Compose, Git, CI/CD, Linux (Nginx/Apache)

**Testing:** Vitest, PHPUnit, Playwright

**Communication:** WebSockets, Message Queues (RabbitMQ)

## EDUCATION

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Uniwersytet Pedagogiczny im. KEN w Krakowie

2007 - 2011

Licencjat — Informatyka

## LANGUAGES

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Angielski — B2

## PROJECTS

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### B2B/B2C E-commerce Platform

Lead frontend & API architect

PHP, Laravel, Vue.js, TypeScript, MySQL, Redis, Docker, C#, .NET

Lead architect and developer of the B2B/B2C e-commerce platform with an online product catalog (catalog.polcar.com). Responsible for optimizing data delivery from complex, heavy source databases and translating business requirements into performant web application solutions.

- ▶ Lead architect and developer of the platform
- ▶ Caching layer and query optimization for hundreds of thousands of products
- ▶ Data integration from internal systems, normalization and cleaning
- ▶ Image delivery optimization with duplication protection

### Database Migration CLI (.NET)

Architect & Developer

C#, .NET, MySQL, MS SQL

Internal terminal tool for migrating data between MS SQL and MySQL with automatic type and schema transformation, including table merging while maintaining referential integrity.

- ▶ Migrated 100+ tables with type and schema transformation
- ▶ Reduced migration time from days to hours
- ▶ Custom logic for table relationship transformation

### Multi-language Management System

Full-Stack Developer

.NET, C#, MSSQL

Internal tool for managing translation repositories. Enables working with language files across multiple projects, automatic detection of missing translations, and data export into project structures.

- ▶ Interface for managing multiple languages simultaneously
- ▶ Automatic detection of missing translations
- ▶ Export/import to project formats

### ModulesGarden - Company Website

Backend Developer

PHP, Laravel

Co-developed the backend of the official company website modulesgarden.com. Implemented business logic and integrated with internal systems.

- ▶ Backend of the modulesgarden.com company site
- ▶ Integration with internal company systems
- ▶ Business logic implementation

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