

# Krzysztof Kaim

Full-Stack Software Engineer

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Software developer and security consultant turned Lead Engineer and Solution Architect located in Kraków.

4+ years running an independent consultancy, specializing in rescuing and re-architecting complex, distressed manufacturing and enterprise systems.

## Professional Experience

### Confidential client in textile industry | Non-Disclosure Agreement

Sep 2025 - Present

Lead Software Engineer & Solution Architect

[Lead / Architect]

- Took over a failing textile MES project and led a full rewrite and platform upgrade.
  - System supports 58 machines across 5 production halls, handling over 205 virtual stock records and 180 ERP-to-MES integrations.
  - Reduced server resource usage by ~80% by eliminating major N+1 hotspots and profiling the backend with OpenTelemetry.
- Architected and executed a "Rewrite & Upgrade" strategy.
  - Led the full rewrite and platform upgrade, consolidating undocumented legacy workflows into a single source of truth.
  - Built secure backend and data access layers with JWT, BCrypt, RBAC, EF Core, Postgres, removed N+1 performance bottlenecks.
  - Designed the ERP integration layer for Subiekt GT and delivered inventory-mapping workflows to unblock planning and execution.
  - Delivered a role-based frontend for planning and execution, supporting 13 business roles and 9 kiosk personas.
  - Architected a multi-stage production engine modeling 11 production operation types across 8 machine categories.
  - Replaced the binary machine model with operational resource logic and a constraint solver for material flow and compatibility.

.NET 8, Entity Framework Core, PostgreSQL/MSSQL, React, Redux Toolkit, Material UI, Docker

### NATA Automation

Feb 2025 - Sep 2025

Full-Stack Software Engineer & Technical Lead (Contract)

[Senior]

- Joined as backend .NET engineer, rapidly expanded scope to own the entire technical stack – frontend, backend, CI/CD, DevOps.
- Acted as sole technical lead on a distressed project, restoring development stability and delivery.
  - Engineered a "Drag & Drop" deployment tool, reducing release time by ~95% (Time to Deploy) and bypassing manual RDP processes.
  - Rewrote the UI using React 18 and Feature-Sliced Design (FSD), eliminating dependency cycles and architectural debt.
  - Implemented RTK Query and server-side pagination, reducing browser RAM usage by ~70% on large production datasets (Heap Size).
  - Overhauled security using BCrypt and JWT rotation, eliminating critical vulnerabilities from legacy AES storage.
  - Integrated SignalR for real-time machine status updates, achieving sub-500ms latency across multiple production halls (WebSockets).

.NET 8, React 18, TypeScript, Redux Toolkit, Material UI, Feature-Sliced Design, PostgreSQL

### Vapture | Independent Consulting – own company

May 2020 - Jan 2025

B2B Software Consultant & Full-Stack Software Engineer

[Mid → Senior]

- Founded and operated an independent software consultancy, serving 5 long-term clients under NDA agreements over 4+ years – delivering end-to-end enterprise solutions in the Travel and Medical industries, from architecture to production
- Took full ownership of the SDLC—from architectural design and requirements gathering to deployment and maintenance.
  - Engineered a custom SMS notification gateway via Google Cloud, automating patient appointment reminders.
  - Implemented custom authentication mechanisms (JWT, RBAC), integrated relational (PostgreSQL) and NoSQL databases.
  - Developed high-performance portals, consistently achieving 90+ Lighthouse scores for SEO and performance.
  - Standardized DevOps by implementing Docker workflows, reducing environment setup time from days to minutes.
  - Decreased production regressions through strict unit/integration testing and comprehensive OpenAPI documentation.

.NET Core, Node.js, React, TypeScript, PostgreSQL, Docker, AWS.

### Wyższa Szkoła Ekonomii i Informatyki w Krakowie (now Uniwersytet DSW Ideis)

Oct 2016 - May 2020

Software Developer & Project Lead

[Mid]

- Developed and maintained internal university ecosystem (.NET CRM system, WordPress event sites and hackathon communication platforms).
- Led a cross-functional team of 20 people in organizing large-scale hackathons (SheepYourHack, WSEICraft), utilizing Agile methodologies.
- Managed cloud infrastructure on Microsoft Azure, setting environments capable of handling high traffic during events (100+ participants).
- Implemented automated email workflows for student communications, reducing manual administrative overhead.

ASP.NET Core (C#), React, Bootstrap, Microsoft Azure, Git, Agile/Scrum.

## Archman

Black-Box Penetration Tester & Security Consultant

Sep 2018 – Sep 2019

[Mid]

- Conducted black-box penetration testing on a proprietary Enterprise Content Management system with Burp Suite, Nmap and OWASP ZAP.
- Performed comprehensive security audits, analyzing vulnerabilities (OWASP Top 10), delivered detailed remediation reports to engineering team.
- Identified and documented compliance gaps, ensuring the system met industry security standards before deployment.

Burp Suite, Nmap, Metasploit, OWASP ZAP, Wireshark, AppSpider, Chrome DevTools, Vulnerability Assessment, Security Documentation

## Wieliczka Salt Mine

Database Administrator & Network Specialist

Jul 2015 – Aug 2016

[Junior]

- Executed complex data migrations across Oracle Database environments, designed and documented network topology maps.

Oracle Database (SQL), Microsoft Visio, Network Administration

## Relevant Certificates

### Microsoft MTA 98-375 and MTA 98-364 (ID 28143730)

Issued by Microsoft Corporation via Certiport

### IT Technician (ID D/30011258/16)

Issued by Ministry of Science and Higher Education in Poland

## Key Points

### Core Technologies

.NET 8, C#, React 18, TypeScript, Node.js, Next.js, Redux Toolkit, PostgreSQL.

### Architecture & Databases

Domain-Driven Design (DDD), Microservices, PostgreSQL, MSSQL, Entity Framework Core, MongoDB, agentic workflows, multi-model orchestration.

### DevOps, Cloud & Tools

Docker, Git, AWS (EC2), SignalR, Swagger/OpenAPI, OpenTelemetry.

### Integration & Security

ERP Integrations (Subjekt GT), JWT, OAuth2, RBAC, Bcrypt.

## Education

### Wyższa Szkoła Ekonomii i Informatyki w Krakowie (now Uniwersytet DSW Ideis)

Bachelor of Engineering in Mobile and Web Application Programming

Class of 2020

Kraków, PL

### Technikum Łączności nr 14 w Zespole Szkół Łączności w Krakowie

IT Technician

Class of 2016

Kraków, PL

## Activities

### SheepYourHack & WSEICraft Hackathons

Co-Organizer & Technical Lead

Jan 2018 – Mar 2019

On-site, Kraków, PL

- Organized large tech events (100+ participants), managed a cross-functional team of 20 volunteers, coordinated with external sponsors
- Defined event objectives and judging criteria, acting as a mentor for junior developers and fostering a collaborative coding environment

### Student Council & University Representative

President & Vice-president

Jan 2017 – Jun 2020

On-site, Kraków, PL

## Languages

Polish – native. English – C1, professional working proficiency (all client communication, technical documentation).

## References

References from rescued-project clients available upon request.

Wyrażam zgodę na przetwarzanie moich danych osobowych w celach rekrutacyjnych, zgodnie z Rozporządzeniem Parlamentu Europejskiego i Rady (UE) 2016/679 z dnia 27 kwietnia 2016 r. w sprawie ochrony osób fizycznych w związku z przetwarzaniem danych osobowych i w sprawie swobodnego przepływu takich danych oraz uchylenia dyrektywy 95/46/WE (RODO).

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