

Adam Walczak

System Architect & Senior Full-stack Developer

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Poznań, Poland

Polish (native), English C1

System Architect / Senior Full-stack Developer with 15+ years of experience. Specialised in developing highly scalable and reliable transaction processing systems with agile DevOps. 5+ years in a management role.

What I do

Product	Requirements gathering, process analysis, use cases and business domain modelling.
Architecture	From microservices to modular monoliths and the well-balanced designs in between; usage of advanced design patterns like CQRS , Event Sourcing , Transactional Outbox and Reliable Messaging ; following Domain-Driven Design from analysis, through architecture, to the codebase.
Data and messaging	Modelling optimised for relational databases or a given NoSQL store; deep knowledge of transactions , concurrent processing and stream processing .
Building software	Java 25 , Spring , Gradle , TypeScript , Angular , nx , Python (basic) PostgreSQL , Cassandra , MongoDB REST , RPC , GraphQL , Kafka Automated tests (JUnit, Jest, Vitest, Playwright, Gatling, JMeter).
Security	OAuth , OpenID , RBAC , Asymmetric Cryptography Spring Security , Keycloak .
DevOps and high availability	Orchestration on Kubernetes with Helm charts and operators (e.g. Strimzi , CloudNativePG); scaling databases; advanced CI/CD ; monitoring with Datadog , ELK or New Relic ; hands-on with Google Cloud Platform and Cloudflare .
AI-assisted delivery	Working with Claude Code , Codex and OpenSpec ; optimising documentation / context for AI (specifications, ontologies); isolated agent environments based on devcontainers .
Domain knowledge	ERP, CRM, MES, WMS and CMS class systems. Blockchain and cryptocurrencies. Manufacturing processes. ISO 9001 quality systems.

Experience

present - Sep 2025	Head of Platform Engineering Piletilevi Group (through contract in biletomat.pl) Coordinating several development teams that build systems for the whole group. Standardising how the teams work and which technologies they use, and shaping a shared vision for one ticketing platform across all group markets.
Sep 2025 - Dec 2019	CTO and System Architect biletomat.pl (formerly ewejsciowki.pl / kicket.com) Led three development teams and drove the move from a legacy platform to modular services orchestrated on Kubernetes, with an event-driven core built for reliable, high-throughput sales. Helped the CEO prepare the company for acquisition and pass technical due diligence. Stack: Java, Spring Boot, Python, Angular, PostgreSQL, Kafka, Kubernetes, Datadog Patterns: CQRS, Transactional Outbox, Event Sourcing, micro-batch processing

Nov 2019 - Mar 2017	Java Developer and System Architect Freelance (IT Kontrakt, NBC, Nextbuy) Contract architecture and development work for clients across e-commerce and enterprise integration projects. Also ran my own cryptocurrency side project.
Feb 2017 - Mar 2014	Senior Software Engineer Allegro Group Worked with the teams rewriting the transaction platform from a PHP monolith into Java microservices, and shared the patterns and frameworks used across the Java platform with other teams. Hands-on experience with Cassandra, MongoDB and New Relic at scale.
Jul 2013 - Mar 2011	Systems Analyst and Community Manager Qcadoo Limited Product management of the qcadoo MES manufacturing management system, including analysis and UI design; built the community and partner network around the project.
Jun 2011 - Jun 2009	Java Developer Freelance Freelanced for various companies and wrote a book on open source project funding and organisational models.
Jun 2009 - Mar 2008	Java, C++ and Perl Developer PSI Polska Extended and deployed the PSIlwms warehouse management system for logistics centres in Poland and abroad.
present - 2004	Co-owner WALCZAK — wooden floors (family manufacturing company) Supporting the business with IT and quality management systems.

Education

2013 - 2012	Postgraduate studies in Modern Manufacturing and Logistics Management Poznań University of Technology Faculty of Engineering Management Thesis: <i>A model of a flexible IT system for manufacturing management in small and medium enterprises.</i>
2010 - 2008	MSc in Computer Science, Software Engineering and Databases Polish-Japanese Academy of Information Technology, Warsaw Diploma grade: very good. Thesis: <i>Organisational structures and business models of open source projects.</i>
2008 - 2004	BEng in Computer Science Poznań University of Technology Faculty of Electrical Engineering Diploma grade: good plus. Thesis: <i>A data acquisition system for industrial devices.</i>

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