

Contact

wszymilo@gmail.com

www.linkedin.com/in/wojciech-szymilowski-3456a2 (LinkedIn)

Top Skills

Software Design

Embedded Systems

C / C++

Languages

English (Professional Working)

Polish (Native or Bilingual)

Wojciech Szymiłowski

Software Engineer transitioning into AI & Agentic Systems | Ex-Manager | Python, LLMs, ML, System Design

Bydgoszcz Metropolitan Area

Summary

I'm a software engineer returning to hands-on technical work, with a strong focus on building and integrating AI agents into real-world software systems used by humans.

My career started in telecom and large-scale distributed systems, where I spent many years designing and implementing production-grade software in complex, high-reliability environments. Later, I moved into engineering leadership and resourcing management, working at the intersection of business, delivery, and technology. That experience sharpened my understanding of how software is actually built, deployed, maintained - and where it often breaks down in real organizations.

Today, I'm intentionally shifting back to engineering, focusing on:

- * Agentic AI systems (LLMs, tool use, workflows, LangChain / LangGraph)
- * AI integration into backend systems and APIs
- * Human-centric AI solutions that support decision-making and daily work
- * Production-ready engineering practices around AI (testing, structure, deployment)

I'm currently deepening my expertise through:

- * A professional AI & Machine Learning Engineering program (224h, live, production-oriented), covering ML, deep learning, NLP, LLMs, agent-based systems, MLOps, and deployment (FastAPI, Docker, Kubernetes, CI/CD)
- * Hands-on learning via advanced courses in Machine Learning with Python and Agentic AI systems

My unique strength is combining:

- * Strong engineering foundations
- * Practical AI/ML implementation skills
- * System-level thinking from years of delivery and leadership experience

I'm particularly interested in roles where AI is not a toy or demo, but a core system component - embedded into products, workflows, and tools that people rely on every day.

Experience

Self-employed

AI & Software Engineering — Current Focus

August 2025 - Present (8 months)

Bydgoszcz Metropolitan Area

- * Building AI agents and backend systems using Python, LLMs, LangGraph, and FastAPI
- * Applying ML, NLP, and agent-based patterns in production-oriented, hands-on projects
- * Focusing on integrating AI into real software systems rather than demos or prototypes
- * Strengthening production practices around testing, system structure, and deployment

Mobica

11 years 7 months

Resourcing Manager

June 2015 - July 2025 (10 years 2 months)

Bydgoszcz, Kuyavian-Pomeranian District, Poland

- * Designed and evolved internal systems and tooling supporting workforce planning, capacity forecasting, and delivery transparency.
- * Applied data-driven approaches to resource allocation, scenario analysis, and decision support for sales and delivery teams.

- * Experimented with AI-assisted tools and automation to reduce manual work and improve planning accuracy.

- * Acted as a technical bridge between engineering teams, delivery managers, and business stakeholders.

- * Gained deep exposure to how software systems are planned, staffed, deployed, and operated at scale.

Group Manager

June 2015 - June 2016 (1 year 1 month)

Bydgoszcz, Kuyavian-Pomeranian District, Poland

- * Combined line management responsibilities with technical oversight of delivery teams.

- * Supported engineering growth, skill development, and project execution in a broadcast/telecom environment.

Senior Software Engineer

January 2014 - December 2015 (2 years)

Bydgoszcz, Kuyavian-Pomeranian District, Poland

- * Designed and implemented production-grade software components for telecom and embedded systems.

- * Led development of a TR-069-based data management layer, integrating network devices with backend systems.

- * Worked on distributed communication protocols (XMPP, device management, message processing).

- * Took responsibility for architecture, implementation, and integration of core system components.

Alcatel - Lucent

15 years 4 months

Software Engineer

May 2002 - December 2013 (11 years 8 months)

- * Developed and maintained high-throughput, mission-critical telecom systems processing billions of processed calls daily.

- * Implemented core call-processing and messaging components in large-scale distributed environments.

- * Worked on system design, performance optimization, testing, and long-term maintenance of carrier-grade platforms.

- * Collaborated across teams on complex, long-lived software systems with strict reliability requirements.

Junior Software Engineer

September 1998 - May 2002 (3 years 9 months)

- * Trainings in Naperville, IL to gather knowledge about 5ESS Switch as well as Software Development processes that my Company used at that time.
- * Code creation on the basis of documented software designs and requirements
- * Writing of documentation for the software
- * Testing
- * Development and maintenance of 5ESS user interface
- * Development and maintenance of 5ESS Digit Analysis call processing module

Notable projects:

- * Carrier Selection - Preselection and CallByCall (5ESS) - I was working on Digit Analysis aspect of this feature. Together with the Team we managed to create piece of software that handles billions calls everyday, everywhere in the world ;)
- * 5ESS Digit Analysis module - I was co-owner of data validation and call processing modules, working on implementation of new features as well as maintaining the code.

Education

Akademia Techniczno-Rolnicza im. J.J.Śniadeckich w Bydgoszczy
Master of Science (MS), Multimedia · (1994 - 1999)