

Szczepan Kurnyta

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Staff Software Engineer

By day, I develop scalable microservices and financial integrations. By night, I build agentic AI systems and mobile apps. Passionate about evolutionary architecture, DevOps "Accelerate" principles, and building products that actually make sense.

I'm a strong believer in hands-on technical leadership. For me, leading teams means debugging most difficult problems, mentoring, setting clear technical direction and staying deeply connected to the craft.

Core Expertise:

- Backend & Architecture: Designing great number of low-level billing integrations across multiple teams and external companies.
- Stack: Java 8–25, Spring Boot 3.5, Kafka, Docker, Kubernetes, ArgoCD, Azure, AWS, Terraform.
- Observability: ELK, InfluxDB, Grafana Loki, Thanos
- Mentoring: LLM wiki concept as knowledge storage, training team in good architecture design, usage of coding assistants and agents architecture

R&D Focus:

- Agentic AI systems, autonomous agents, mobile and frontend apps

SKILLS

Agents, Architecture, Distributed Systems, Java, REST APIs, Spring, System design

WORK EXPERIENCE

ENEFIT

10/2023 – Present

Software Architect

Hands-on architecture and development, splitting my time 70% in codebase implementation and 30% in high-level system design:

- optimize billing platforms for performance, reliability, and cost efficiency
- elevate observability (monitoring/alerts/dashboards) and promote a culture of continuous improvement and data-driven decisions
- design and deliver integrations with the new billing system
- drive standardization of the tech stack and architecture to reduce complexity and speed up delivery
- guide application migrations toward a consistent style and better maintainability
- mentor teams on modern stack and tools—leveraging AI where it meaningfully improves delivery and quality

Technical Lead

- designing solutions to problems in billing and debt
- improving monitoring and observability
- unifying and upgrading tech stack
- refining processes for better tech debt reduction
- educating, mentoring and recruiting

Software Architect

- Working as a hands-on architect designing solutions and integrations around billing systems. Everyday decreasing manual work and improving performance so our apps are faster, more reliable and competitive. Enhancing monitoring and observability so we keep finding and lowering the level of errors. Crafting a forward-looking tech stack vision and successfully implementing different tasks to drive technological advancements

IG Group

06/2016 – 09/2023

Technical Team Lead

- Leading product team that helps clients to find instruments they can trade on. Designing new APIs. Working on performance and scalability of java services: migrations to java17, optimization of SolrCloud, moving apps towards event driven architecture based on kafka. Designing, supervising and implementing architecture changes.

Technical Specialist

- Developing APIs, improving performance and observability of java microservices.
- Dockerizing services and statting migration of apps to kubernetes. Organizing a series of training courses for number of teams around usage of docker, kubernetes and helm.

Senior Developer

- Developing and maintaining RESTful APIs for IG Trading platform

Sabre

06/2015 – 05/2016

Senior Software Developer

- Using Java, Spring, Hibernate, SQL, Oracle DB and ActiveMQ to support one of the biggest crew management systems in airline industry. Working on scalability and system architecture improvements like startup time, long running jobs, database design. Creating performance tests framework in Python and working on multiple CI/D optimizations.

Sabre Airline Solutions

06/2012 – 05/2015

Contributor Software Developer

- Crew Management System | Sabre Airline Solutions

Associate Software Developer

- Crew Management System | Sabre Airline Solutions

NATEK

01/2009 – 05/2012

Software Engineer

- Working as a Web Developer for Natek and Software Developer for Gemalto – digital security company and world leader in telecommunication.
- Internal web systems development (PHP, Java, Web technologies). Creation and optimization of databases. Designing new features and creating tools for managers.
- Developing Eclipse plug-ins and RCP applications. Working on automation of SIM specification generation process (XML, Java SE, PDE, JUnit). Creating software for SIM cards production process (C++ DLLs, scripting languages). Contacting consultants regarding technical requirements and specification.

GE HealthCare

07/2008 – 01/2009

Intern in Image Quality team

- Employed by Hungarian GEHC division. Working on algorithms increasing visibility and quality of X-ray images (lung lesions), analysis and development of different methods, performing tests and acquisitions on medical devices.
- Contacting ImageQuality team worldwide in order to discuss possible improvements. Supporting the team in measurements and other activities related to verification and validation of tested products.

- LC IAESTE AGH** **10/2005 - 06/2008**
Fund & Job Raising team member
- Contacting with employers in order to organize internships for foreign students. Looking for founders. Coordinating job raising events and organizing job fairs.
- Biomedical Image Technology lab. - UPM Madrid, Spain** **07/2007 - 08/2007**
Intern, C++/IDL Programmer
- Biomedical image processing. Working on Fourier reconstruction algorithm(FORE) used in Positron Emission Tomography, developing and optimizing regularization filters applied during the reconstruction process.
- Elektroinstitut Milan Vidmar in Ljubljana, Slovenia** **07/2006 - 08/2006**
Intern at Department of Measurements
- Assisting and helping at measurments of EMC, electromagnetic fields, grounding systems. Doing calculations, preparing documentation, designing basic measuring system.
- Enion S.A. Nowy Sacz, Poland** **07/2005 - 07/2005**
Intern at Department of Measurements
- Observing and assisting at measurements of electrical energy(reading, checking, installing registers). Searching and drawing new annexations to power lines (maps of grid).

EDUCATION

- Master of Science in Electrical Engineering - Computer Engineering**
 AGH University of Science and Technology in Cracow 01/2003 - 12/2008
 Excellent marks and scholarships every year during studies

PROJECTS

- AI DEVs course** 03/2026 - 05/2026
 AI DEVs
 Built 25+ mini-agents presenting different capabilities and challenges of autonomous agents systems
- Voice assistant** 04/2026 - 05/2026
 Personal
 Building personal voice assistant using local Gemma4 on Android via Flutter, tts, stt, Gemini 3.1 (as alternative) and ElevenLabs (for better voice experience), integrating with different mobile APIs to provide tools for the app. Technologies: Flutter, AI APIs, Android APIs
- AI learning app** 04/2026 - 05/2026
 Personal
 Developing NotebookLM-like app that is able to ingest data in different formats (images, text, documents) and based on them create quiz, summary, test knowledge. Technologies: JS, APIs
- Baza drawing app** 10/2025 - 11/2025
 Freelance
 Customer: <https://bazacentrumrozrywki.pl/>. Developed mobile app that allows to draw on selected images provided by the customer. Designing and developing integration via http to "presentation server" that brings the image to life on the wall. Used by hundreds of children daily. Technologies: Flutter, Python, REST
- Baza loyalty app POC** 01/2025 - 05/2025
 Freelance
 Customer: <https://bazacentrumrozrywki.pl/>. Creating initial version of the loyalty app that will be used to discover attractions, providing leaderboard for users, qr code scanning, account creation, authentication, resetting password: Flutter, Firebase, RealtimeDB, Push-notifications

CERTIFICATIONS

AI_devs 4 Builders

AI_devs

04/2026 - Present

Kubernetes: Microservices

LinkedIn

09/2023 - Present

HTTP Essential Training

LinkedIn

04/2023 - Present

Learning Kubernetes

LinkedIn

03/2023 - Present

Transition from Java to Go

LinkedIn

03/2023 - Present

The Leader's Guide to Mindfulness (getAbstract Summary)

LinkedIn

07/2020 - Present

M101J: MongoDB for Java Developers

MongoDB, Inc.

12/2014 - Present