

Kosma Dunikowski

Łódź, Poland

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in kosma-dunikowski

Seasoned software engineer with 12+ years of hands-on experience in high-stakes production systems. Proven track record of technical leadership, system architecture, and driving engineering excellence.

Experience

Pixel Technology Sp. z o.o.

Łódź, Poland

CTO (Hands-on Tech Lead)

Jul 2022 – Present

- Led technical strategy, significantly improving development velocity and code quality.
- Implemented LLM-based code review process, reducing critical bugs.
- Introduced application monitoring, decreasing average issue resolution time.

Engineering Manager & Tech Lead, Java/Python, MLOps

September 2021 – Jul 2022

- Architected and deployed a self-serve MLOps platform for a team of 15 data scientists and medical professionals.
- Led a cross-functional team of 7 engineers.
- Introduced Apache Airflow for data pipelines, enhancing data processing efficiency.

Senior ML Engineer & Tech Lead, Python, Deep Learning

May 2018 – Jul 2021

- Spearheaded the development of a Data Science tech stack using Kubernetes and IaC.
- Developed high-performance deep learning models with PyTorch.
- Co-authored paper in Journal of Medical Virology on AI-based COVID-19 risk prediction.

Senior Software Engineer, Java/C++, Medical Image Processing

Jul 2016 – May 2018

- Architected and implemented a medical image annotation tool.
- Optimized image processing algorithms, enabling real-time analysis for critical cases.
- Introduced Git and Docker to the development workflow.

Software Engineer, Java/C++, Medical Image Processing

May 2014 – Jul 2016

- Developed core components of a medical imaging solution.
- Implemented performance optimizations for image processing.

Ragnarson Sp. z o.o.

Łódź, Poland

Software Developer

July 2012 – June 2013

- Developed and maintained Ruby on Rails applications.

Core skills

Languages & Frameworks: Java (Spring, Hibernate), Python (FastAPI, PyTorch), C++.

Architecture & Design: Microservices, RESTful APIs, SOLID principles, Design patterns.

Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD, Infrastructure as Code.

Data & AI: MLOps, Deep Learning, Medical image processing, Data pipelines.

Leadership: Technical strategy, Team mentoring, Cross-functional collaboration.

Languages: English (fluent), Polish (native).

Certifications: AWS Certified Solutions Architect - Associate, PSM I (Professional Scrum Master).

Education

Technical University of Łódź

Łódź, Poland

M.S. Computer Science (Artificial Intelligence)

2013 – 2015

B.S. Computer Science (Software Engineering and Data Science)

2009 – 2013