

MICHAŁ KONRAD OWSIAK

System Architect | Technical Lead | Distributed Systems | HPC & Scientific Computing

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GitHub: github.com/mkowsiak | **Scholar:** scholar.google.com/citations?user=JDV4MEUAAAAJ

PROFILE

Senior System Architect and Technical Lead with 20+ years of experience delivering cloud distributed systems, scientific computing platforms, and research infrastructure solutions. Experienced in software architecture, technical program delivery, technical leadership, proposal development, and cross-functional project delivery in international environments. Proven track record supporting EU research initiatives, HPC environments, and large-scale scientific collaborations including [EUROfusion](#) and [ITER](#). Strong background in Java, Python, Linux, containerised systems, and technical stakeholder management.

CORE COMPETENCIES

- Systems Architecture - Solution Architecture - Distributed Systems - Cloud Architecture
- High Performance Computing (HPC) - Scientific Computing - Technical Leadership
- Engineering Delivery - Technical Strategy - System Integration - Proposal Writing
- Research Infrastructure - Java - Python - Linux - Docker - Podman - Apptainer -
- OpenStack - PostgreSQL - CI/CD - Agile Delivery - Stakeholder Management

PROFESSIONAL EXPERIENCE

POZNAN SUPERCOMPUTING AND NETWORKING CENTER (PSNC)	2006 - Present
System Architect / Team Leader / Deputy Principal Investigator	2013 - Present
Software Engineer / Java Developer	2006 - 2013

- Led technical preparation of 10+ research and infrastructure proposals, including architecture, risk mitigation, technical planning, and financial estimations
- Delivered software architecture, integration, and technical leadership for international scientific and distributed computing projects
- Collaborated with [EUROfusion](#) and [ITER](#) initiatives, supporting technical delivery, stakeholder coordination, and platform integration
- Designed and delivered technical tutorials, conference materials, seminars, and technical documentation for users
- Principal developer of the first release of [Conference4me](#) (iOS), responsible for backend architecture, SQLite persistence layer, and data migration workflows

PREVIOUS EXPERIENCE

Software Developer - T.A.B. Software	2005 - 2006
Software Developer - Kleffmann	2004 - 2005
Software Engineer - Invest Bank S.A.	2001 - 2004
C++ Developer - Longsoft Multimedia	2000 - 2001
Assistant - Wrocław University of Science and Technology	2000 - 2000

TECHNICAL SKILLS

Programming:	Java (Spring, Swing, CLI), Python, Bash/Shell, Objective-C, C++
Infrastructure & DevOps:	Linux, Docker, Podman, Apptainer, OpenStack
Databases:	PostgreSQL, MySQL, SQLite, JavaDB
Tools:	IntelliJ IDEA, NetBeans, Vim
Methods:	Agile, OKR, SMART, GTD

EDUCATION

MBA, Innovation and Data Analysis (in progress) SWPS University	2025 - 2026
MSc, Psychology SWPS University	2022 - 2024
MA, Philosophy Adam Mickiewicz University	2006 - 2010
Postgraduate, Human Resource Management Poznań University of Economics	2003 - 2004
MScEng, Computer Science Wrocław University of Science and Technology	1995 - 2001

LANGUAGES

Polish (Native) | English (Professional - TOEFL)