

Tomasz RAK

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EDUCATION

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

PH.D. IN COMPUTER SCIENCE
2007 | Krakow, Poland

RZESZOW UNIVERSITY OF TECHNOLOGY

M.Sc. IN COMPUTER SCIENCE
1999 | Rzeszow, Poland

SKILLS

PROGRAMMING

C/C++/C# • ASP.NET MVC/Core • PHP • Rails • HTML • CSS/LESS/SASS • JavaScript/TypeScript/Angular • Shell scripts • SQL • MPI library • openMP interface (*Advanced knowledge of Web technologies, distributed computing, high performance computing and script programming*)

OPERATING SYSTEMS

Linux • iOS (*Advanced knowledge of computer networks, databases, clusters, services and cryptography*)

RESEARCH INTERESTS

TARGET TECHNOLOGY DOMAINS

Software engineering • Service-oriented computing • Distributed component-base systems • Database and information systems • Event-base systems

MAIN RESEARCH AREAS

Internet systems architectures • HA and HP clusters • Software and systems engineering • Systems benchmarking, monitoring, simulation and experimental analysis • Analytical and experimental performance modeling • Queueing theory • Petri nets

EXPERIENCE

SCIENCE

RZESZOW UNIVERSITY OF TECHNOLOGY | PH.D. ENG., ASSIST. PROF.

1999- | Rzeszow, Poland **RUT** (Research Asst. & Students Teacher)

I work on the mechanisms of the Web programming, distributed systems performance analysis and computer networks.

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY | PH.D. ENG.

2005- | Krakow, Poland **AGH** (Research Asst.)

Professor **Prof. Jan Werewka** and my common research work is concern on the architectures of Web-based systems.

RESEARCH AND DEVELOPMENT

SOFTTEL SP. Z O.O. | SOFTWARE AND SYSTEM ARCHITECT

2002- | Rzeszow, Polska **Softtel**

Implementation of an innovative system of comprehensive bank service.

ADVANCED TECHNOLOGY SYSTEMS INTERNATIONAL | SOFTWARE AND SYSTEM ARCHITECT

2002-2003 | Krakow, Poland **ABS**

Design of the system clustered Web application.

SOFTSYSTEM SP. Z O.O. | EXPERT IN THE USE OF IT SOLUTIONS • PROJECT MANAGEMENT

2017- | Rzeszow, Polska **SoftSystem**

Designing solutions for high-performance Web clinical software for hospitals and medical laboratories (POIR.02.01.00-00-00-0438/16 project).

NATIONAL INSTITUTIONS

NATIONAL AGENCY FOR ACADEMIC EXCHANGE | EXPERT

2019- | Warsaw, Poland **NAWA**

FOUNDATION FOR POLISH SCIENCE | EXPERT

2019- | Warsaw, Poland **FNP**

MINISTRY OF ENTREPRENEURSHIP AND TECHNOLOGY | EXPERT

2018- | Warsaw, Poland **MPiT**

NATIONAL INFORMATION PROCESSING INSTITUTE | EXPERT

2018- | Warsaw, Poland **OPI PIB**

MINISTRY OF ECONOMY/MINISTRY OF INVESTMENT AND DEVELOPMENT/MINISTRY OF DEVELOPMENT

2015- | Warsaw, Poland **MiR**

MINISTRY OF DIGITAL AFFAIRS | EXPERT

2015- | Warsaw, Poland **MC**

PROJECT CENTRE DIGITAL POLAND | EXPERT

2014- | Warsaw, Poland **CPPC**

NATIONAL CENTRE FOR RESEARCH AND DEVELOPMENT | EXPERT

2009- | Warsaw, Poland **NCBiR**

INTERNATIONAL INSTITUTIONS

AAL PROGRAMME | EXPERT

2019- | Brussels, Belgium **AAL**

AFFILIATIONS

Queueing theorists list: **pos. 1541**

RUT expert: **Informatics**

LINKS

Publons:// **G-1895-2012**

ORCID:// **0000-0002-9299-2216**

DBLP:// **Tomasz Rak**

Scopus:// **Author ID: 34977412000**

Google Scholar:// **Tomasz Rak**

ResearcherID:// **G-1895-2012**

ResearchGate:// **Tomasz_Rak**

LinkedIn:// **tomasz-rak-50775859**

ARTICLES AND BOOKS

- **40** scientific articles (27) and popular science (13) **publications** (*National and international*)
- **13** books about programming, computer systems and computer networks (10 **Helion**, 1 **PWN** and 2 supporting materials) (*National*)

H-INDEX

Publons (Web of Science) : 4

• **Scopus : 5** • **Google Scholar : 5** •

ResearchGate : 4

ACCOMPLISHMENTS

- 2014-2020 | Polish Expert of European Union national programmes: Operational Programme Smart Growth • Operational Programme Digital Poland
- 2006-2007 | The modeling and analysis of interactive Internet systems realizing the service of high - frequency offers (National grant **3 T11C 022 30-2006**)
- Technical Program Committee/International Advisory Committee:
 - 2020 | **ECCOT** **ACDS** **CN** **NS** **ISSC** **ACI** **AEMIT**
 - 2019 | **ECCOT** **ACDS** **CN** **AIT** **ATIECE** **CTCE**
 - 2018 | **ECCOT** **ACDS** **CN**
 - 2017 | **ECCOT** **CN** **CSMA**
 - 2016 | **ECCOT** **ACDS** **SSR** **NCT**
- Reviewer:
 - 2020- | **IGI Global** **HRPUB**
 - 2019- | **AJPS** **CJAST** **CAI** IF: 0.524
 - 2018- | **Measurement: JIMC** IF: 2.218
- Author of ICT Exams:
 - 2011 | **Network Administration** **Linux**

CERTIFICATIONS

APMG-INTERNATIONAL PRINCE2 CERTIFICATION

- APMG Foundation PRINCE2 Certificat **P2R/994137**
- APMG Practitioner PRINCE2 Certificat **P2R/542120**

CENTRAL ANTI-CORRUPTION BUREAU

- Corruption in public administration
- Corruption in business
- Social effects of corruption

AWARDS

2017		Medal of Commission of National Education
2016	3 th	Rector's RUT individual award
2009,2008	3 th	Rector's RUT team and individual awards
2004-2006	2 nd	Rector's RUT team awards
2003	1 st	Rector's RUT individual award