

# Curriculum Vitæ

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## Professional Experience

**2013-now** *Solutions Architect* – Linux Polska Sp. z o.o., *IT Consultant*

Works for several companies as the IT solutions architect and consultant. Conducts and participates in many IT initiatives for major Polish enterprises in financial, insurance and other business fields. Focused on solutions for operational intelligence, enterprise applications and engineering of modern IT technologies as well as architectural and professional training in the mentioned technology fields, tailored for specific needs of both management and engineering staff.

Conducts several public and customer oriented presentations and lectures related with Big Data and machine data technology.

### **Distinguished achievement: Comprehensive deployment of Splunk Enterprise for mBank**

Works as the deployment consultant, Splunk architect and trainer in the following areas:

- customer's operational intelligence domain analysis
- architecture recommendations
- deployment recommendations
- deployment plan
- engineering support
- business domain applications development consultancy
- usability analysis
- customized trainings for engineering and business staff
- cluster for 200 GiB data a day – design and implementation
- trainings for more than 50 staff members (diversed student profile: technicians, business staff, analysts)

## **Development of Security Information and Event Management system based on Splunk for Warsaw Stock Exchange**

Works as project leader, developer and design principal, including the following tasks:

- design of system architecture (Splunk environment and integrations)
- design of SIEM application according to customer's requirements
- data analysis
- functional analysis and design of analytical models and queries, including smart techniques for workflow based incident processing
- functional analysis, design and implementation of embedded workflow application (Splunk SPL based + SplunkJS Javascript framework)
- customer's technical staff training and support

## **Participation in development of Splunk based Fraud Detection System for BGK**

Works as designer and developer for several analytical modules, including:

- integration module for on-line ZBP (Związek Banków Polskich) account, documents blacklists
- several analytical modules related to user behaviour analysis and transaction monitoring
- support functional solutions related to big data handling (aggregation, transformation and analysis)
- data unification (implementation of CIM-like data model)

Distinct skills related to these activities: *Operational Intelligence field analysis, Splunk engineering, Splunk architecture blueprint, Requirement Analysis, Big Data management*

## **2008-2013 Chief ICT Architect – KBC Consumer Finance (ŻAGIEL S.A.)**

Responsible for technology research, system design and IT architecture management at corporate branch level, in KBC Consumer Finance Poland and Romania. Works along with the KBC enterprise architecture team in international and local projects. Conducts complex system design across its life-cycle. Solves crucial issues related to architecture management within a modern IT organization.

## **Distinguished achievement: Pan-European Consumer Finance Platform**

Works as the technology architect (management combined with research position) responsible for system design, technology research and technical architecture management, including:

- technology and application *standards management* (technical reference model, gap analysis)
- design and application of *technology principles*
- employment of *service-oriented architecture patterns*

- development of *canonical data model* required to fulfill the employed SOA patterns
- initial design of *enterprise service bus* based on Red Hat JBoss SOA Platform, including service and component inventory (more than 100 distributed services and service components)
- design of B2B integration patterns related to so-called Open Architecture platform, including integration with sales and decision systems of major Polish banking institutions
- design and implementation of security services based on OpenAM (a.k.a. OpenSSO) and LDAP directory, initial development (prototype & research) of access control mechanism implementing Role Based Access Control pattern
- successful introduction and switch of analysis and development process to a unified modeling tool: Visual Paradigm for UML Suite
- technology research and design of Management Information System based on Pentaho BI Suite

Distinct skills related to this position: *TOGAF (The Open Group Architecture Framework), Architecture Design, Enterprise Architecture Patterns, Service Oriented Architecture, Enterprise Service Bus Implementation, B2B System Integration, System Analysis & Modeling, Technology Research, UML, Object-Oriented Analysis & Design*

#### **2005-2008 Senior Systems and Network Administrator (also as a Team Leader) – KBC Consumer Finance (ŻAGIEL S.A.)**

Designs and manages IT infrastructure, including servers, enterprise storage, virtual machines. Manages systems administration team, providing a proper tasks management (microplanning). Conducts projects related to infrastructure changes as well as technology research. Responsible for implementation of the research deliverables.

#### **Distinguished achievement: Design of Infrastructure for KBC Consumer Finance Romania**

Works as the solution technical architect and designer, responsible for proper hardware infrastructure design and sizing, according to the dedicated software requirements. Manages changes over project execution, including: infrastructure improvement, infrastructure re-sizing, software and hardware change management. Conducts technology research as well as sizing exercises based on system stress tests.

- design and sizing of server and storage infrastructure based on Sun SPARC platform and HP solutions
- design and configuration of high-availability services covering server and application layers (Linux Heartbeat, JBoss distributed cache management & JGroups, load-balancing based on CISCO content-switch)
- participation in design of network infrastructure based on CISCO solutions
- design and configuration of storage infrastructure related to mission critical applications (mid-range arrays: HP EVA 5000 and 8100, HP MSA series, Sun StorageTek 6000 series)

- configuration and hardening of HP (x86\_64) and Sun (SPARC64) servers (mid-range servers: HP BL, HP Blade, Sun V490)
- optimization of Java Enterprise Edition execution environments (including OS layer) based on Tomcat, JBoss Application Server and Apache Web Server (as proxy and load-balancer)
- installation and configuration of EKIP (financial management software), SAP BusinessObjects, Experian Scorex, in-house software
- installation and configuration of Oracle database, including HA deployment based on Oracle DataGuard (on-line log replication mechanism)

As the UNIX, Application Servers and Network Management Team leader:

- conducts team management process, based on micro-planning
- provides direct task assignment, manages problem solving and communication between the team and other working groups (DevOps like)
- ensures team oriented problem solving and knowledge sharing
- provides expertise in solution judgement and its organized implementation
- manages operational work through day-to-day procedures as well as dedicated projects and micro-projects

#### **2001-2005 *IT infrastructure administrator and maintainer* – CRH Akademos Lublin**

Responsible for network and servers configuration and their tuning. Conducts user training, provides operational procedures and manages IT assets. Manages configuration of domain name services for local and external networks as well as manages Qmail & Sendmail based e-mail servers. Implements an advanced configuration of SAMBA services (open-source Windows domain server), including working environment for over 800 student accounts.

## Distinct Soft and Professional Skills

Soft skills supporting the career so far:

- proven ability to perform analytical challenges (so-called “analytical mind”)
- strong determination of self-development and improvement of knowledge
- distinct interpersonal skills related to team management and team motivation
- proven communication skills related to concept elaboration (e.g. architecture vision) and ability to translate technology vision to business language
- empathetic attitude to workmates and strong ability to mitigate conflicts within teams
- assertive attitude to problem solving, therefore ability to drive successful defense of own concepts while taking into account co-workers’ remarks

Deep knowledge of Linux, UNIX (worked with System V, BSD and Sun-OS) as well as Windows (completed MCSA training path):

- operating system and network services, including:
  - DNS – domain name services based on BIND9
  - NTP – network time service advanced configuration on Linux & Solaris
  - CISCO VPN & Open VPN infrastructure management
  - SAMBA – advanced configuration of Windows domain emulation
  - Apache web server (HTTPD) – configured in various configurations: reversed proxy (also with JPA), standard web-application server, etc.
  - Squid proxy server – advanced configuration with custom user authorization integration with mail servers and LDAP
  - Postfix & Dovecot mail services – configuration for more than 1500 user accounts (advanced configuration: cascade MTA, clustered Dovecot)
  - MPP Cloudmark – research, deployment and management of advanced anti spam based on neural-network algorithms
  - Windows Domain services: ADAM, directory, printing, IIS, integration with Linux infrastructure
  - Linux IPA (LDAP v3) – configuration and integration
- broad knowledge of available and applicable open-source and commercial software
- system distribution (networked services, network configuration) and scalability (service load-balancing, fail-over, clustering)
- system monitoring (e.g. IBM Tivoli Monitoring + Netcool, Oracle EMGC and its integration with other tools, Zabbix, Nagios, etc.)
- configuration and advanced optimization of CPU, I/O and network subsystems (Linux kernel hardening, including kernel code tuning)

- day-to-day operation (e.g. OS commands, packaging, system configuration automation: Puppet, Ansible, custom solutions)
- security configuration (SE-Linux, AppArmor, embedded and OS based IP firewalls)

Deep knowledge of enterprise architecture management and frameworks:

- The Open Group Architecture Framework (TOGAF), including practical usage of ADM (Architecture Development Method)
- practical knowledge of other frameworks, like e.g. Department of Defense Architecture Framework (DoDAF) management methods
- ability to drive implementation and further coordination of architecture management organization (structures, processes, committees) – practical knowledge, especially in the context of long time being a chairman of company's Architecture Board
- ability to conduct successful co-operation with programmers and designers (including domain architects and technical committees)
- strong experience in successful organizational diffusion of ITIL practice and architectural framework (TOGAF)
- knowledge of enterprise integration patterns, backed with long time practice in financial enterprise field

Knowledge of programming languages, programming techniques, project methodologies, technology tools and system design techniques:

- ANSI C – UNIX system programming
- C++ – GNU compilers framework
- PHP (3, 4, 5) – structural and object-oriented programming of Web applications and modules (embedded functional modules for ProcessMaker), standalone applications in Yii framework
- Python, PERL – scripting (e.g. stress tests)
- R Language – statistical computation
- SPL (Search Processing Language) – Splunk data analysis language
- SQL (PL/SQL, PL/pgSQL) – ability to write advanced database procedures, queries and design optimized technical data models
- POSIX.2 shell scripting (BASH, KSH, CSH, SH) – high level of expertise, including *trainer* competencies
- ETL – data warehouse, data integration and implementation of EAI patterns with Pentaho BI Suite and Talend ETL Suite
- Apache Hadoop (Hortonworks suite) – big data analysis, integration, infrastructure planning
- Splunk Enterprise – big data analysis and operational intelligence (financial fraud detection systems, custom SIEM solutions, SOA environment monitoring)
- open source event management solutions (Elasticsearch, Logstash, Kibana and similar) – practical knowledge of system event management, correlation and analysis

- Service Oriented Architecture – proven skills in pattern application and SOA government
- knowledge of structured and object-oriented analysis methods (OOAD & SSADM) and Unified Modeling Language (UML), especially in the context of different aspects of system design and analysis
- long-time experience in projects realized with PRINCE2 methodology as well as agile methodologies (Scrum, extreme programming, etc.), including Scrum of Scrum technique applied to SOA oriented development project (7-10 scrum teams working together)

## Languages

**Polish** Native

**English** 'C1 Effective Operational Proficiency' – ability to communicate for business (e.g. contract negotiations) and strong ability to clearly express technical concepts

## Education

**2001-2005** College of Enterprise and Administration in Lublin, Poland (all semesters, *no degree*)

While studying acts as the co-founder and for two years amanuensis and activist of the Computer Science Students Circle.

**1998-2000** Secondary Technical Education Courses in CRH Akademos Lublin

Active support for creation of Linux education courses as well as examination and assessment patterns.

**1991-1995** High School: Liceum Ogólnokształcące im. Bohaterów Grunwaldu w Pasłęku

## Professional Certificates

- Splunk Certified Architect
- Splunk Certified Support Engineer
- Certified Splunk Sales Specialist
- Professional Scrum Master (PSM I)

## Professional Education

- Apache Hadoop 2.0: Data Analysis with the Hortonworks Data Platform using Pig and Hive
- Apache Hadoop 2.0: Developing Applications with the Hortonworks Data Platform using Java
- Scrum Methodology Course
- Architecting and Deploying Splunk 5.0
- Advanced Splunk 5.0 Administration

- Splunk 5.0 Administration
- Searching and Reporting with Splunk 5.0
- RH300 RHCE Rapid Track Course with RHCSA and RHCE Exams (RHEL 6)
- Training: PENTAHO DATA INTEGRATION
- Project & Team Management Workshops (conducted for ŻAGIEL S.A. management staff)
- Oracle 10g: Administration
- Training: JBoss, J2EE (conducted by Javart, tailored for ŻAGIEL S.A.)
- Implementing, Managing and Maintaining a Microsoft Windows Server 2003
- Managing a Microsoft Windows Server 2003 Environment
- Maintaining a Microsoft Windows Server Environment
- Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts
- Installing, Administering, and Configuring Microsoft Windows XP Professional
- Deploying and Managing Microsoft Internet Security and Acceleration Server 2000

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