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# PhD, Eng. Marcin Michał Mirończuk

Voivodeship mazowieckie, Warsaw

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## EDUCATION

- 09/2013 **Defense of the doctoral dissertation – Computer Science**  
Academic degree: PhD  
Name of university: Białystok Technical University  
Specialty: data mining, text mining  
Dissertation title: Design of the chosen information system based on text mining analysis of national fire service documentation
- 10/2007 - 9/2011 **PhD studies – Electrotechnics**  
Professional title: M.Sc. Eng.  
Name of university: Białystok Technical University (review and acceptance of proposed doctoral dissertation at the Faculty of Computer Science)
- 10/2002 - 7/2007 **MSc studies - Electrotechnics/Electronics and Telecommunications**  
Professional title: M.Sc. Eng.  
Name of university: Białystok Technical University
- 03/2007 - 6/2007 **MSc studies - Electrotechnics/Electronics and Telecommunications**  
Note: Socrates Erasmus students exchange  
Name of university: Technical University of Ostrava, Czech Republic

## JOB EXPERIENCE

- 11/2014 - **National Information Processing Institute**  
Workplace: Laboratory of Intelligent Information Systems (scientific technical worker)  
Tasks: Analysis, design and implementation of selected components of the recommender system with called Inventorum. Programming selected components in Java. Using R-project language and Spark to data analysis and prototyping solution of component.
- 03/2012 - 09/2014 **Institute of Computer Science Polish Academy of Sciences**  
Workplace: Research staff (assistant engineers)  
Tasks: Analysis, design and implementation of selected components of the information retrieval system with called Nekst. Programming selected components in Java. Using R-project language to data analysis and prototyping solution of component.
- 03/2011 - 9/2011 **Białystok Technical University**  
Conducting exercises: Basics C/C++ programming  
Domain: Computer science
- 10/2010 - 12/2010 **Ennova**  
Workplace: PHP/SQL programmer  
Tasks: Software implementation based on supplied specifications.
- 04/2010 - 09/2010 **Netsolution**  
Workplace: PHP/SQL programmer  
Tasks: Create specifications, cost estimates and analysis of information projects. Designing, programming and software development. Work on the implementation of internal and external projects such as: help desk or service and maintenance orders.
- 05/2009 - 12/2009 **12GA**  
Workplace: PHP/SQL programmer  
Tasks: Creating and developing software. Work on the project includes the design and

implementation of the portal for the club community.

- 03/2009 - 10/2010 **ProFind Mirończuk Marcin**  
Workplace: Owner  
Tasks: Creating programming specifications, cost estimates and analysis of information projects. Designing, programming and development of software.
- 07/2008 - 6/2009 **Prospekta**  
Workplace: PHP/SQL programmer  
Tasks: Software creation and development. Creation of IT project specifications. Implementing modules for Magento e-commerce platform. Development work on the ORION CMS system for Prospekta company.
- 09/2007 - 5/2008 **BayBrain Inc.**  
Workplace: PHP/SQL programmer  
Tasks: Creating software to aggregate information from social media. Development work carried out for BayBrain Inc.
- 07/2005 - 8/2005 **Termoenergia Białystok**  
Workplace: Apprentice  
Tasks: Practice in the energy sector, in the field of security and operation of energy systems.
- 02/2003 - 5/2005 **Marek Mirończuk Usługi Techniczne w Energetyce**  
Workplace: Office assistant  
Tasks: Record keeping and work related to the operation of the secretariat in the energy sector include preparing reports and monthly statements.

## RESEARCH AND DEVELOPMENT PROJECTS

- 11/2014 - **OPI – Inventorum recommender system**  
Inventorum is a place that connects scientists with the industry and the business using intelligent algorithms, as well as ensuring access to comprehensive, consistent and reliable information on innovations, projects, innovative enterprises and scientific institutions, as well as experts and conferences.
- 03/2011 - 09/2014 **IPI PAN – The adaptive system supporting problem solving based on a content analysis of electronic sources**  
Participation in the Nekst project (Project POIG.01.01.02) realized by the Institute of Computer Science, Polish Academy of Sciences. In the department of Artificial Intelligence, team of Foundations of Artificial Intelligence, which implements the project, I'm responsible for the analysis, design and implementation of selected elements of the Nekst information retrieval system.
- 9/2007 - 09/2013 **Analysis of textual reports from rescue service events using text mining techniques**  
Propose and describe method to analyze reports of Polish Fire Service collected in the system records. This method allows extraction from reports additional and hidden knowledge about rescue operations carried out by the emergency services. The developed method is used to design an information system based on the available textual documentation.
- 9/2007 - 03/2010 **Design decision support system**  
Project of decision support system for rescue services. Developing functional specifications of the project and qualitative research.
- 03/2006 - 5/2007 **Web-based distributed system for collecting and analyzing selected medical data in clinic of urology**  
The project covers the design of complex system for the urology clinic. The project included the selection of such solutions which would have enabled effective communication and proper circulation of documents in the urology clinic. Created application for this information system was based in the Web technologies.
- 10/2005 - 3/2006 **Constructed website for Ecology Project, realized on the University of Białystok – Faculty of Education and Psychology**

The page containing information about ecology and plant and include online survey.

01/2005 - 1/2006

**Construction and administration of the Integra UwB scientific circle web page**

Develop the web site, for communication between users, and exchange of information through a online forum.

11/2004 - 9/2006

**Internet e-mail client**

Individual project inclusive of create Internet application use PHP and MySql database, which enables creating mail boxes by WWW interface, send/receive e-mail.

## PROFESSIONAL SKILLS

### Database technologies

MySQL, Postgres (PL/pgSQL), Oracle 9i, H2, Hive, MongoDB

### Programming languages and frameworks

Very good knowledge about: R-project (in particular the modules for text mining, manipulation, storage of large data objects and multithreaded computations), PHP5 / PHP4 / PHP3, Zend Framework, ORM - Doctrine, JavaScript

Good knowledge about: Java, Hadoop (map-reduce), Spark, Oozie, parallel processing

Basic knowledge about: Spring, JSF, SOAP, C++, Flex (ActionScript), XML XSLT, Smarty, HTML, XHTML, CSS

### Management and administration of data

Creating a data model, Database design, Data access and user administration, Data analysis, Entity Relation Diagrams

### Types of software solution

Client/Server solutions, Object-oriented programming and design patterns, Programming shells

### Development tools and operating systems

IntelliJ, Microsoft Visual C++ 2008, Zend Development Environment, Eclipse, Enterprise Architect, SVN (Subversion), Linux (Slackware, Suse etc.), Windows, Servers: Apache and Tomcat

### Methods & API standards

UML (Unified Modeling Language)

### Software Engineering

Methodologies and procedures development, Create: functional specification, design specification, requirements definition, technical documentation, software documentation, revision and testing code, agile development knowledge

### Type of projects implemented

Healthcare, Utilities, Internet - E-commerce, Web 2.0 technologies, Decision Support Systems, ERP systems, Processing and analytics of text - in particular the problems of classification and the extraction of large amounts of information (issues analysis of large data using data mining and text mining)

### Foreign languages

English, Polish, Russian

## ADDITIONAL INFORMATION

Nationality: Poland

Publications and conferences: Top 16 publications, 5 conferences and seminars is on the page <http://profind.pl/publikacje/>

Awards: Marshal's scholarship in the project "Podlaska Strategia Innowacji - budowa systemu wdrazania" and doctoral scholarships for learning achievements

Driving license: category B

Training: Participation in the project entitled "Co-operation between science and business opportunity for dynamic development of the region - Transfer of knowledge to the business," July 2009

Interests and hobbies: Sailing, Travel, Extreme Sports, Programming

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## **EXPECTED JOBS**

Branch: Programming - Analyst / Internet - E-Commerce / IT - Database / IT - Project Management / Research and development / Analysis and processing of data (Data Mining), in particular, text mining and information extraction / Networking and information systems / ERP Systems / Decision Support Systems

Professional Aspirations: Possibility of development. Working in a creative group or individually solving the assignments.

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