# Europass
# Curriculum Vitae

## Personal information

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|---|---|
| First name(s) / Surname(s) | Jakov Pavlek |
| Address | Samoborska cesta 150, 10090 Zagreb, Croatia |
| Telephone(s) | +38515619882 (home)         Mobile │ +385915751117 (personal) |
| Fax(es) | +38515599782 |
| E-mail(s) | jakov.pavlek@gmail.com; jakov.pavlek@omonicon.com; jakov.pavlek@fer.hr; |
| Nationality | Croatian |
| Date of birth | 11 February 1981 |

## Desired employment / Occupational field

Research and Development, Project manager / Language technologies, Web services

## Work experience

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| Dates | 01 August 2008 → |
| Occupation or position held | Technical Manager |
| Main activities and responsibilities | Project Management (Team Gathering, ICT Market Research), Contacting Clients, Managing Human Resources and Technical Managing. |
| Name and address of employer | Omonicon - ICT Management and Consulting Samoborska cesta 150, 10090 Zagreb, Croatia |
| Type of business or sector | Information and communication technology consulting |
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| Dates | 03 January 2005 → 31 October 2010 |
| Occupation or position held | Research and Teaching Assistant |
| Main activities and responsibilities | Research in data mining and statistical data analysis for machine learning applied to language technologies in the context of web services. Language Technologies/Web Services program prototyping; Managing student projects; Database administration. |
| Name and address of employer | Faculty of electrical engineering and computing Unska 3, 10000 Zagreb, Croatia (Hrvatska) |
| Type of business or sector | Research and education |

## Education and training

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|---|---|
| Dates | 22 March 2010 → |
| Title of qualification awarded | In Progress - Aimed Title: Ph.D. (Completion expected within 12-18 months) |
| Principal subjects / occupational skills covered | Research Area Application: Context-Sensitive Spell Checking. Statistical Methods for Data Mining, Data Structures and Algorithms, Program Agents for Electronic Market. |
| Name and type of organisation providing education and training | Faculty of Electrical engineering and computing, University of Zagreb. (Postgraduate University Study) Unska 3, 10000 Zagreb, Croatia (HR) |
| Level in national or international classification | ISCED level 6; Ph.D. |

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|---|---|
| Dates | 21 February 05 - 30 March 2010 |
| Title of qualification awarded | Master of Science, Mr.Sci. (M. Sc.) |
| Principal subjects / occupational skills covered | Thesis Title: Online Spell Checker Lexical Database Expansion. Discrete Mathematical Models, Probability and Statistics, Intelligent control and Games of Automata, Combinatorial Algorithms, Algorithms in Bioinformatics, Distributed Information Systems, Knowledge Discovery in Data Sets, Data Warehouse Modelling, Communications in Virtual Environments. |
| Name and type of organisation providing education and training | Faculty of Electrical engineering and computing, University of Zagreb. (Graduate University Study) Unska 3, 10000 Zagreb, Croatia (Hrvatska) |
| Level in national or international classification | ISCED level 5A/6; 390 ECTS; M.Sc.; GPA: 5.00 at 5.00 scale. |

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|---|---|
| Dates | 16 July 2004 - 15 July 2006 |
| Title of qualification awarded | (Inactive, the aimed title: Hungarologist and prof. of Slovak language and literature) |
| Principal subjects / occupational skills covered | Slovak language and literature, Slovak culture and civilization; Hungarian language and literature, Hungarian culture and civilization, translation. |
| Name and type of organisation providing education and training | Faculty of Humanities and Social Sciences, University of Zagreb. (Undergraduate University Study) Ivana Lučića 3, 10000 Zagreb (Zagreb) |
| Level in national or international classification | International classification: ISCED level 5A; B.Sc. |

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|---|---|
| Dates | 09 July 1999 - 28 September 2004 |
| Title of qualification awarded | Graduate engineer of electrical engineering, profile: Telecommunications and Informatics |
| Principal subjects / occupational skills covered | General: Mathematics - Functional Analysis 1, 2, 3, Linear Algebra, Discrete Mathematics, Probability and Statistics, Stochastic Processes, Graph Theory; Physics 1,2 Occupational: Wide area of Electrical engineering, from Telecommunications to Radiocommunications, significant number of courses in Computing and Computer Science, also courses in Economics, Entrepreneurship, Managerial decision making and Organization psychology. |
| Name and type of organisation providing education and training | Faculty of Electrical engineering and computing, University of Zagreb. (Undergraduate University Study) Unska 3, 10000 Zagreb, Croatia (Hrvatska) |
| Level in national or international classification | International classification: ISCED level 5A; 301/270 ECTS; B.Sc.+M.Sc.; |

## Personal skills and competences

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| Mother tongue(s) | Croatian |

Other language(s)

| Self-assessment | Understanding | | | | Speaking | | | | Writing | |
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| European level (*) | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| English | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |
| German | C1 | Proficient user | C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user |
| Slovak | B1 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user |
| Hungarian | A2 | Basic User | A2 | Basic User | A2 | Basic User | A2 | Basic User | A2 | Basic User |
| French | A1 | Basic User | A1 | Basic User | A1 | Basic User | A1 | Basic User | A1 | Basic User |

(*) Common European Framework of Reference (CEF) level

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| Social skills and competences | Experience in working with people and presenting in front of the auditorium (trainings in BEST and numerous science and promotion presentations held); Good motivator, inspire people, create positive working atmosphere (feedback from colleagues); |

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| | Team spirit, fast learning, easily adapting, especially good ability do adapt to multicultural environments (gained through practice on seminars, conferences and courses abroad as well as through meeting people and travelling in everyday life). |
| Organisational skills and competences | Experience in team management & Project management: |
| | Hascheck008 - Single Word Language Origin Detection and Phonological Normalization, Oct 2008 - Jan 2009 [3-member team leader; Perl, Python]; |
| | Hascheck007 - Exploring Lexical Classification, Oct 2007 - Jan 2008 [6-member team coordinator; C#, Perl, Python]; |
| | JobFair in Krakow in March 2004, and JobFair in Zagreb May 2004 [guest co-organizer]; |
| | Graph Colouring, student project on Transmission systems, Feb - June 2002 [team leader and coordinator; COSMOS developing environment for MS .NET C++]; |
| | Making Web Pages and Multimedia Applications - Business Opportunity Estimation, student project on Introduction to high-tech entrepreneurship, team SOMMITÉ, Feb - June 2002 [team leader]; |
| | VRRP - Virtual Router Redundancy Protocol, student project on Information Networks, Oct 2001 - Feb 2002 [team coordinator; Unix environment]. |
| Technical skills and competences | Experience in working with electrical and measurement equipment (six years), Radar systems, Wireless Systems, Electromagnetic fields and their effects, Natural Language Processing, Digital photography & Digital image processing. |
| Computer skills and competences | Operating Systems: Windows (XP, Vista), Unix (Ubuntu, Redhat). |
| | Software Packages/Applications/Services: |
| | Daily usage of MS Office tools (Word, Excel, PowerPoint); Microsoft Visual Studio, Microsoft .NET, MS Visio, Open Office, Adobe Acrobat, Flux2D/3D, Active State Perl, Active State Komodo, JDK, Google SketchUp, Google Search, WinSCP. |
| | Programming Language and Script Language Skills: |
| | C, C++, C#, Java, Perl, PHP, JavaScript, Python, awk, sed, Unix shell scripting, UML, HTML, SQL, XML, CSS, PostScript, Matlab, Mathematica. |
| | Other Computer & Programming Skills: Software Design and Implementation (Natural language processing, Database Design & Data Storage Modelling, Object-Oriented Programming; Design Patterns; Modular Programming, JUnit testing). |
| | Sample of Projects Done: Online Spell Checker Lexical Database Expansion [Perl, C#, Python] |
| | Graph Representation and Graph Algorithms in Graph Theory [C++]. |
| | JGraph - Graph Colouring - an application for operations and algorithms on graphs (two member team) [Java]; |
| | Generative Morphology Description of Conjugation Forms in Croatian Language [Perl, Unix Environment]; |
| | Statistical analysis of mid-exam tests in Fundamentals of Electrical Engineering and detailed reports for automatic self-improving of grading and test assessment [Perl, Unix Environment]. |
| | Database administrator (Ahyco FER, Course: Fundamentals of Electrical Engineering). |
| Artistic skills and competences | Photography, Origami design, Furniture Design, Playing Synthesizer and Lily Harp. |
| Other skills and competences | Recreational Activities: Cycling, Hiking, Ice-skating, Table tennis, Swimming, Dance. |
| Driving licence(s) | A1, A, B |
| **Additional information** | Publication articles: |
| | Š. Dembitz, J. Pavlek, D. Stupar: Foreign Name Problem in Croatian Speech Synthesis, Govor - časopis za fonetiku (Speech – Journal of Phonetics), in Croatian, Zagreb, Croatia, 2010 (co-author, accepted for publication in 2009); |

J. Pavlek, Š. Dembitz, M. Matasić: Improved Methods of Word Acquisition in developing Hascheck Spell Checker Web Service System, Proceedings of 10th International PhD Workshop OWD'2008, Wisla, Poland, 2008;

K. Moustakas, G. Nikolakis, D. Tzovaras, B. Deville, I. Marras, J. Pavlek: Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people, Proceedings of the eNTERFACE 2006 Workshop, Dubrovnik, Croatia, 2006 (co-author);

D. Bonefačić, J. Bartolić, J. Pavlek: Measurement of Peak Radiated Power of a Pulsed Monostatic Radar System with Phased Array Active Antenna, AMTA Europe Symposium 2006, Munich, Germany, 2006 (co-author).

Š. Dembitz, Lj. Jojic, J. Pavlek: Artificial intelligence in lexicography: Croatian Encyclopaedic Dictionary Example, Annals of DAAAM for 2005 & proceedings of the 16th international DAAAM symposium, Branko Katalinic (ed.)., DAAAM International Vienna, Vienna, Austria, 2005 (co-author).

| Annexes | Project participation: |
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Project participation:
2007-2009 Participating in Networked Economy Project (MZOŠ 0036016);

2005-2006 Participating in Distributed Systems Performance Modelling Project (MZOŠ 0036049).

Conferences, workshop and course Certificates (On request):

MPLS & Ethernet World Congress 2011 Exhibition, Upperside Conferences, 8-11 February 2011, Paris, France;

International PhD Workshop OWD'2008, Wisla, Poland, October 2008;

International NATO - Advanced Study Institute Summer School on Fundamentals of Verbal and Nonverbal Communication and the Biometric Issue, 2-12 September 2006, Vietri sul Mare, Italy;

The SIMILAR Network of Excellence Summer Workshop on Multimodal Interfaces, eNTERFACE'06, July 17 – August 11 2006, Dubrovnik, Croatia;

TOEFL (Test of English as a Foreign Language) CBT Certificate, 270/300 pts, 11 Jan 2006, Zagreb, Croatia;

16th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Young Researchers and Scientists", 19-22 October 2005, Opatija, Croatia;

Institute of Croatian Language and Linguistics, The Croatian Language Technologies Society (CLTS) & the University of Split: Workshop for Computational Modelling of Lexical Acquisition, 25-28 July 2005, Split, Croatia;

International BEST Symposium "The Bologna Process, Quality and Accreditation towards Recognition, Universidade Nova de Lisboa, 5-10 September 2004, Almada, Portugal;

56. Internationaler Sommerkurs 2004, Johannes Gutenberg-Universität Mainz, 4-28 August 2004, Mittelstufe 2, Mainz, Germany;

BEST Course "Medical imaging for diagnosis, image guided surgery and drug discovery", Université catholique de Louvain, 18-31 July 2004, Louvain-la-Neuve, Belgium;

BEST Course "Electromagnetic fields and their effects", Chalmers University, 26-30 January 2004, Gothenburg, Sweden;

Carnet – Edupoint Educational Center, *Web Acrobations II, Dynamic Web Programming in PHP (PHP+SQL/PL)*, December 2003, Zagreb, Croatia;

3 times participating in Croatian Mathematical Yearly Competition on national level (1996, 1997, 1999) after series of school, city and county contests selection organized by Croatian Mathematical Society and Ministry of Education. (In top 25 students in generation in Croatia in 1st, 2nd and 4th high-school grade).

Scholarship: Ministry of Defense, Republic of Croatia, 2004-2005.

Association Memberships:

Student Association for Study Quality Improvement (Studentska udruga za unaprjeđenje kvalitete studiranja, SUZUKS), Initiator and a co-founder, Vice-president 2008-2009;

IEEE, Student Member, 2007-2008;

BEST – Board of European Students of Technology, Student Member, 2003 – 2005.