

Marinka Zitnik
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CONTACT
INFORMATION

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CITIZENSHIP

Slovenia

EDUCATION

Faculty of Computer and Information Science, University of Ljubljana, Slovenia

B. Sc., Interdisciplinary University Program of Computer Science and Mathematics, Diploma expected in 2012

- Average mark 10.0/10.0 (equivalent to a GPA of 4.0 on a 4.0 scale).
- Attending fourth year of the four-year interdisciplinary university program in year 2011/2012.

Upper Secondary School of Electrical and Computer Engineering, Ljubljana Vegova

High School, Computer Technology High School, 2008

- General Matura Exam (Summa Cum Laude) with achieved 34/34 points.

AWARDS

Best Student Award 2011, University Of Ljubljana, Slovenia

Best Student Award of University for overall performance in courses.

The 2011 Google Anita Borg Scholarship Finalist

The Google Anita Borg Memorial Scholarship honors the memory of Dr. Anita Borg by encouraging women to excel in computing and technology and become active role models and leaders in the field.

Slovene Human Resources and Scholarship Fund

Slovenian Scholarship for talented students.

- Zois Scholarship, 2004–Ongoing

Faculty Award, Faculty of Computer and Information Science, University of Ljubljana

- Highest Average Mark Award, Faculty award for best students, 2010
- Highest Average Mark Award, Faculty award for best students, 2009

EuroSkills 2010, Portugal, Lisbon

European Competition held by European Commission, category Office ICT Informatics.

- Silver medal as team leader and project manager (individual award)
- Silver medal as Informatics ICT Team (team award)

EuroSkills presentation at **Informativa**, Biggest Slovenian Education, Scholarship and Employment Fair. SloSkills presentation at International Innovation Exhibition, Ljubljana.

SloSkills 2010, Slovenia, Nova Gorica

National Competition in Informatics. Planning and implementation of the ICT system.

- Gold medal as project manager

Swiss Talent Forum 2009, Switzerland, Zurich

Energy Challenge. Workshops with with Nobel laureates, managers and politicians.

Imagine Cup 2009, Slovenia, Ljubljana

Development of information system, project I See You Know.

Project I See You Know is natural disaster information system, aiming at fast and quality coordination between civil service and dispatching information to public.

- Bronze medal

20th **International Olympiad in Informatics**, Egypt, Cairo

Guest Participation.

NetRiders Competition 2008, Web Competition

Networking competition, held by Cisco Systems. Slovenian representative.

19th **European Union Contest for Young Scientists**, Spain, Valencia

Slovenian representative. Project Collection of Minerals and Rocks at Upper Secondary School of Electrical and Computer Engineering Ljubljana.

I collected information on visual and chemical properties of the rich collection of minerals and rocks and classify them using Strunz chemical-structural classification into ten major compositional classes.

Union of Technical Culture of Slovenia, Slovenia, Ljubljana

Visiting HP Centre Boblingen in Germany, Naples in Italy.

- Gold medal for the project The Process of the Slovenian Inclusion in the EU, 2007

Union of Technical Culture of Slovenia, Slovenia, Ljubljana

Winner of the year 2006.

- Gold medal for knowledge in Chemistry, 2007
- Gold medal for the research project in Chemistry - Minerals and Rocks, 2007

List of Gold National Medals achieved during High School Period, Slovenia

Mathematics, History, Physics, Mother Language **2008**

Mathematics, Physics, Mother Language, German Language, English language **2007**

Mathematics, Physics, Mother Language, History, Chemistry **2006**

EXPERIENCE

XRDS: Crossroads, The ACM Magazine for Students

Department Editor **2012–Ongoing**

- XRDS, formerly Crossroads, is the flagship academic magazine for student members of the Association for Computing Machinery or ACM.

Google Summer of Code 2011, Orange – Data Mining Fruitful & Fun, University of Ljubljana

The project MF - Matrix Factorization Techniques for Data Mining under supervision of Prof. Blaz Zupan, PhD **2011**

- Python scripting library which includes a number of published matrix factorization algorithms, initialization methods, quality and performance measures and facilitates the combination of these to produce new strategies. The library represents a unified and efficient interface to matrix factorization algorithms and methods and has support for dense and sparse matrices.
- Paper for the Journal of Machine Learning Research is in progress.

Faculty of Health, University of Ljubljana

Demonstrator at Computer Science courses **2010–2011**

Faculty of Computer and Information Science, University of Ljubljana

Demonstrator at Programming 2, Programming and Algorithms under supervision of Prof. Sasa Divjak, PhD **2010–2011**

Demonstrator at Business Intelligence, Data Mining under supervision of Prof. Blaz Zupan, PhD **2011–2012**

Research at Bioinformatics Laboratory **2010–Ongoing**

Cisco Networking Academy

Mentor at SloSkills Contest in Informatics category and adviser at student's preparations for EuroSkills Contest in Informatics category **2011-2012**

Lecturer and instructor at local Cisco Networking Academy for CCNA Discovery and Exploration Courses **2009-2011**

CCNA 4.0, LAN Switching and Wireless **2011**

CCNA 4.0, Networking For Home And Small Business **2009-2011**

CCNA 4.0, Working at a Small-to-Medium Bussines or ISP **2010**

CCNA 4.1, Working at a Small-to-Medium Business or ISP **2009**

Slovenia Nokia App Forum

Mobile Application Development MobiFoto in Qt Symbian **2010**

Union of Technical Culture of Slovenia

Organization of National Competition of Chemistry for High and Primary Schools **2010, 2011**

Organization of National Competition of Computer Science for High and Primary Schools **2011**

Abito

Designing and co-authoring of LMS Computer Communications and Networks used in upper vocational schools using Adobe Flex and ActionScript **2009-2011**

Development of LMS for Slovenian Police Academy using Adobe Flex and ActionScript **2010**

Administration of Microsoft Sharepoint Server 2007 and Microsoft Sharepoint Server 2010 **2009-2011**

Avtenta.si

Development of workflows and web controls with Windows Workflow Foundation for Microsoft Sharepoint Server 2007 **2009-2010**

SharePoint Deep Dive Education U2U **2009**

Hermes SoftLab, Comtrade

National Information System for Health Centers **2009**

Summer School, development of Games on Gaming Platform **2008**

Summer School, sports Club HSL on Web **2007**

TECHNICAL
SKILLS

General:

Software experience in networking, information technology and information systems. Good command of designing web pages and graphic design applications. Experience in computational theory algorithms, computational complexity theory and optimization methods. Experience in implementation of machine learning and data mining algorithms. Applications of machine learning techniques for classification of gene expression data and various tasks in bioinformatics, image processing and recommendation systems.

Mathematics:

Good grounding in linear algebra, numerical methods, discrete mathematics, optimization methods, statistics and probability, combinatorics and calculus.

Programming and Solution Technologies:

Java SE/ME; Python; C; C++; Matlab; JavaScript; Prolog; UNIX shell scripting; C# and .NET Framework (WPF, WWF, WCF); Flash; ActionScript; Flex; Qt; Assembler; Windows Live Framework (Live Services, Virtual Earth); PHP; Database programming in relational SQL DBMS (DBMS MySQL, Oracle, Berkeley XML DB) and noSQL; Silverlight; Microsoft Office SharePoint Server 2007; Microsoft SharePoint 2010; Web services (SOAP, WSDL); XML; JSON.

Technical Fundamentals:

Software engineering (desing, test, code inspection, advanced debugging).
Team development (configuration management, revision control systems such SVN and git).
Development of technical desing with multiple modules.
Development of open source applications.

Information Technology:

Networking (protocol stacks, dynamic routing, switching, security and others), Cisco certificates CCNA1, CCNA2, CCNA3, CCNA4, Cisco Academy Orientation Course for Cisco Networking Academy Instructors, Configuration of Cisco routers and switches through CLI.

Operating Systems:

Linux, Microsoft Windows family, UNIX variants.

INTERPERSONAL
SKILLS

I have worked with people from all backgrounds, including companies, researches and scholars and have worked in groups as a team member or leader and have therefore good command of understanding, following or leading the projects from beginning to end. I am equally happy working in a team as to on my own.

PRESENTATION
SKILLS

Strong presentation skills, both orally and writing. I have made presentations at numerous events, fairs, contests to broad audience (technical and non-technical public). I can summarise data and adapt my register in a way that presentation is clear, concise and contains relevant information to suit the audience.

INTERESTS My life so far is comprised of a sincere dedication to my family, studies and work. My motto is One can never have too much knowledge. I like challenges and have enjoyed participating in KDD Cup 2011, ECML Challenge 2011 and others. The rewards, such as an opportunity to learn something and gain new experience, meeting new people and having fun are almost always worth the efforts.

LANGUAGES Active: Slovenian, English
Active (less comfortable communication): German

REFERENCES All additional references are available upon request.

NOTE *** Most of the bold-typed items and some italic-typed are links to websites with additional information. Hover over and click to follow the link.