Boris Perović

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Key strengths:

EPFL Computer Science Master student

Broad knowledge in software and computer systems

Electrical engineering background

Strong analytical, organizational and teamwork skills

OBJECTIVE

EDUCATION

I want to take part in cutting-edge engineering projects, apply my computer science knowledge to difficult problems that matter at a global scale and become someone who makes a change towards a more connected, better world.

Oct 2015 – Apr 2016	Stanford University	Stanford, California	
	Visiting Student Researcher in Computer Science. Conducting MSc thesis	research in Pervasive	
	Parallelism Laboratory, under the supervision of Prof. Kunle Olukotun and	•	
Sep 2013 – Apr 2016	Swiss Federal Institute of Technology Lausanne (EPFL)	Lausanne, Switzerland	
	Master in Computer Science, Internet Computing Specialization, core GPA		
Sep 2009 – Sep 2013	University of Belgrade, School of Electrical Engineering (ETF)	Belgrade, Serbia	
	Bachelor in Electrical Engineering and Computing, GPA 9.58 out of 10		
EXPERIENCE			
Jun – Sep 2015	CERN, Software Engineering Intern (Summer Student)	Geneva, Switzerland	
	Worked on ROOT Data Analysis Framework used by all of the experiments in CERN. Implemented		
	modular outputting of types using advanced C++ templating and code generation for Cling, a C++		
	interpreter developed at CERN. Changes I made were integrated into the master and are used by		
A 0014 E 0015	thousands of physicists and scientists every day. (C++, LLVM, Clang)		
Aug 2014 – Feb 2015	Net Link Solutions, Software Engineering Intern		
	Re-implemented easyUML NetBeans UML plugin, pushing it from ~400		
Mar May 2012	downloads (code here). Contributed to Neuroph Neural Network Framew		
Mar – May 2012	Serbian Object Laboratories, Software Engineering Intern	Belgrade, Serbia	
A	Implemented code generation for model-driven development framework	(SOLOISL. (Java, XIVIL)	
<u>Academic</u>	(EDEL)		
Feb – Jun 2014	Swiss Federal Institute of Technology Lausanne (EPFL)	Lausanne, Switzerland	
	Teaching Assistant in the course Programming 2, covering object-o	priented programming,	
Feb 2012 Com 2012	intermediate C++ and graphics.	Dolaro do Carbio	
Feb 2012 – Sep 2013	University of Belgrade, School of Electrical Engineering (ETF)	Belgrade, Serbia	
	Teaching Assistant in courses Operating Systems 1 and 2, covering p	-	
	management, scheduling algorithms, synchronization and inter-process c systems, operating system architectures.	communication, i/O, file	
	systems, operating system are intectures.		

Selected projects

Master thesis – Pervasive Parallelism Laboratory with Professor Kunle Olukotun and Professor Martin Odersky

Delite – a compiler framework and runtime for parallel, high-performance embedded domain-specific languages. Working on language virtualization and hiding the deep embedding from users through the use of Scala macros (Scala) Semester project – Distributed Information Systems Laboratory with Professor Karl Aberer

Memo-it – worked on a battery aware sensor library and Android mobile application identifying user's memorable moments. Developed several location-based features and the core recommender system (Java, Android SDK)

Compiler for MicroJava – lexical, syntactical, semantic analysis and bytecode generation (JFlex, CUP, Java)

Multiversion Concurrency Control library with query predicate locking (Java)

Intelligent agent systems (reactive, central-coordinated, distributed) for pickup and delivery problem (Java)

Al for Reversi game – Minimax algorithm with Alpha-Beta pruning (Java)

CUDA Fast Fourier Transformation and performance evaluation. 85x speedup compared to serial version (C++, CUDA)

Hadoop analytics application – efficient detection of triangular connections in social network graphs (Java, Hadoop)

Multithreading kernel with timesharing. Threads, context switching, semaphores, events (C++)

ARM architecture processor design with 5-stage pipeline and caches (FPGA, VHDL)

FIELDS OF INTEREST

Large-scale computer systems

Operating systems and programming languages

Internet computing and big data

Space technologies and novel transportation methods

Web programming Project management and entrepreneurship

COMPUTER SKILLS

Operating systems Windows, OS X, Linux

Languages Java, C, C++, Scala, C#, VHDL, x86 and ARM assembly

Technologies Hadoop, MPI, CUDA, Pthreads, NetBeans Platform, Android SDK

Web HTML, CSS, JavaScript, SQL, JSP, basic PHP

Tools Git, SVN, sbt

ACTIVITIES AND ACKNOWLEDGEMENTS

- Sep 2014 "Memo-it: Don't write your diary, sense it": coauthor, Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication, Pages 203-206
- May 2013 chosen as one of the 20 national "Vip students" 2012/2013 by Vip mobile Serbia
- Competitions:
 - Member of the winning team at FONIS Start conference 24-hour Windows 8 hackathon 2012
 - Helvetic Coding Contest 2015, 2014 (algo), Microsoft Coding Competition EPFL 2014 (algo), Nordeus Hackathon 2011 (game dev), MDCS Bubble Bot 2011 (AI)
- Conferences and seminars: WebFest.ME 2012 and 2011, EESTEC Soft Skills Academy 2011, Microsoft Sinergija 2010
- Feb 2010 Sep 2013 Member of ETF Students Alliance. Computer Engineering class delegate. Organizer of science competitions at international conference of students of electrical engineering Elektrijada 2011 and 2012.
- Attended programs at Petnica Science Center Electronics 1/2 (2006/07), Physics 2 (2008).
- Volunteered at international work camps with Young researchers of Serbia:
 - 2009, Iceland Veraldarvinir, eco, working with children and organizing an exhibition.
 - 2008, France Unarec, teen, renovation of Ecomusée d'Alsace.
- Scholarships:
 - Fund for Young Talents Dositeja, Ministry of Youth and Sports, RS (2012, 2013, 2014, 2015)
 - Ministry of Edu., Sci. and Tech. Development, RS (2006, 2007, 2008, 2010, 2011, 2012)
 - City of Belgrade, RS (2007, 2008, 2012)

LANGUAGES

Serbian Native

English Reading – C2, Writing – C2, Conversation – C2 French Reading – B2, Writing – A2, Conversation – A2

OTHER

Sport - Won multiple medals at national and international competitions in athletics (2005, 2006, 2007)

- Ran relay marathon in Prague as a member of First Belgrade Gymnasium team (2007, 2008)

Hobbies Composing, playing piano, basketball, skiing and free climbing