

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

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.

EDUCATION

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 Prof. Martin Odersky	
2013 – Apr 2016	Swiss Federal Institute of Technology Lausanne (EPFL)	Lausanne, Switzerland
	Master in Computer Science, Internet Computing Specialization, core GPA 5.89 out of 6 (all 5.39)	
2009 – 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 thousands of physicists and scientists every day. (C++, LLVM, Clang)	
Aug 2014 – Feb 2015	Net Link Solutions, Software Engineering Intern	Belgrade, Serbia
	Re-implemented easyUML NetBeans UML plugin , pushing it from ~400 to more than 25,000 downloads (code here). Contributed to Neuroph Neural Network Framework . (Java, NetBeans)	
Mar – May 2012	Serbian Object Laboratories, Software Engineering Intern	Belgrade, Serbia
	Implemented code generation for model-driven development framework SOLoist. (Java, XML)	

Academic

Feb – Jun 2014	Swiss Federal Institute of Technology Lausanne (EPFL)	Lausanne, Switzerland
	Teaching Assistant in the course Programming 2, covering object-oriented programming, intermediate C++ and graphics.	
Feb 2012 – Sep 2013	University of Belgrade, School of Electrical Engineering (ETF)	Belgrade, Serbia
	Teaching Assistant in courses Operating Systems 1 and 2, covering processes and memory management, scheduling algorithms, synchronization and inter-process communication, I/O, file systems, operating system architectures.	

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)
 AI 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 with 5-stage pipeline and caches (FPGA, VHDL)

FIELDS OF INTEREST

Large-scale computer systems	Operating systems and compilers
Internet computing and big data	Space technologies and novel transportation methods
Web programming	Project management and entrepreneurship

ACTIVITIES AND ACKNOWLEDGEMENTS

- “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
- Dec 2012 - Member of the **winning team** at FONIS Start conference 24-hour Windows 8 hackathon
- **Competitions:** Helvetic Coding Contest 2015, 2014 (algorithms), Microsoft Coding Competition EPFL 2014 (algorithms), Nordeus Hackathon 2011 (game dev), MDCS BubbleBot 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 – Elektrijska 2011 and 2012.
- Attended programs at Petnica Science Center – Electronics 1/2 (2006/07), Physics 2 (2008).
- Volunteered (Young researchers of Serbia) at international work camps:
 - 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)

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

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 at Serbian State championships and international meetings (2005, 2006, 2007) - Ran relay marathon in Prague as a member of First Belgrade Gymnasium team (2007, 2008)
Hobbies and interests	Composing, playing piano, basketball, skiing and free climbing