



Marija Selakovic, Ph.D.

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EDUCATION

- October 2014 – January 2019 **Doctoral Degree in Computer Science**
TU Darmstadt, Germany
Topic: *Actionable Program Analyses for Improving Software Performance*
GPA: summa cum laude
Publications: <https://marijaselakovic.github.io/publications/>
- October 2012 – August 2014 **Double Master's Degree in Computer Science**
VU University Amsterdam, The Netherlands
University of L'Aquila, Italy
Topic: *Application of MDE principles in JEE design and development*
GPA: 8.5/10
- October 2008 – June 2012 **Bachelor's Degree in Information Systems and Technology**
University of Belgrade, Serbia
GPA: 9.6/10

WORK EXPERIENCE

- March 2021 – present **Innovation Manager**
Merck KGaA, Darmstadt, Germany
- September 2019 – February 2021 **Research Engineer**
Huawei Research, Dresden, Germany
- Concurrency testing and fuzzing
 - Code transformation and analysis with Clang and LLVM
- October 2014 – June 2019 **Research Assistant**
TU Darmstadt, Germany
- Empirical studies of software performance
 - Development of static and dynamic program analyses
 - Automated test generation for dynamic languages
 - Application of machine learning for code optimizations
- June 2018 – September 2018 **Research Intern**
Microsoft Research, Redmond, USA
- Performed user study of accessibility issues in web applications
 - Developed an automated tool to find instances of common accessibility issues
- May 2017 – August 2017 **Research Intern**
Microsoft Research, Redmond, USA
- Developed a static analysis to find optimization opportunities in big data programs written in SCOPE language
 - Automatically analyzed ~3,000,000 SCOPE programs to determine the potential for performance improvements

February 2014 – June 2014

Software Engineering Intern

IBM, Amsterdam, The Netherlands

- Modeling and development of Java EE applications
- Developed several model-to-model and model-to-code transformations in Rational Software Architect IBM tool

October 2013 – June 2014

Academy Assistant

Network Institute VU Amsterdam, The Netherlands

- The application of multiple regression analysis to predict future collaboration between experts based on variation, diversity, and overlap in their expertise

FURTHER EDUCATION

March 2019 *IBM Data Science Professional Certificate*. 9 course specialization track at coursera.org

April 2019 *Deep Learning Specialization*. 5 course specialization track at coursera.org

SKILLS

Technical Skills **Programming Languages:** JavaScript (Advanced), Python (Intermediate), Java (Intermediate), C# (Intermediate), SQL (Intermediate), C (Beginner)
Testing: Fuzzing (AFL, libFuzzer), Web Testing (Selenium), Program Analysis (LLVM, Pin, Infer, Jalangi)
Technologies and Tools: Node.js, Web API, Chrome Extension API, VirtualBox, Git
Operating Systems: Linux, Windows

Languages English, Fluent
German, Beginner
Serbian, Native

AWARDS

2016 ACM-W Scholarship award for attendance at research conferences

2013 Scholarship of Serbian Ministry of Education for the best postgraduate students enrolled in leading worlds universities

2012 EUROWEB Erasmus Mundus scholarship for a period of 20 months

REFERENCES

Available upon request.