

Petar Tešić

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Linkedin: [Petar Tešić](#) * *GitHub:* [PosteruOle](#)

Work experience

Software Engineer at Microsoft

Apr 2025 - Present

Azure Compute Node Services Group Team - full time

Belgrade, Serbia

- Maintaining testing infrastructure simulating production environments for critical Azure services.
- Collaborating with Redmond-based teams on design discussions and service improvements.
- Participating in on-call rotations, troubleshooting incidents and ensuring system reliability.
- Implemented optimizations to reduce node log collection overhead during test execution.

Software Engineer at CISCO

May 2024 - Mar 2025

System Integration Platform Team - full time

Belgrade, Serbia

- Maintained and improved testing infrastructure for Cisco Silicon One project.
- Enhanced existing systems used to simulate real-world data center network traffic.
- Collaborated with Israel-based teams on system integration and testing.
- Added support for new hardware board types in testing workflows.
- Implemented validation of port speeds across multiple traffic generators.

Software Engineer at SYRMIA

Apr 2023 - Apr 2024

System Software Team - full time

Belgrade, Serbia

- Developed features for AutoCheck, a C++ static analysis tool for automotive standards.
- Contributed to LLVM compiler infrastructure.

Software Engineer Intern at FIS

Nov 2022 - Jan 2023

C# team - full time

Belgrade, Serbia

- Contributed to Balance Sheet Manager (BancWare) financial software.

Teaching Associate at the Faculty of Mathematics

Oct 2022 - Sep 2024

Department of Computer Science - part time

Belgrade, Serbia

- Courses: Programming 2 (1st grade), Translation of Programming Languages (3rd grade), Introduction to Relational Databases, Computer Networks, Database programming (4th grade)

Education

Faculty of Mathematics

University of Belgrade, Serbia

Doctor of Philosophy - PhD degree in Informatics

Oct 2024 - Present

Some of chosen majors: Advanced Topics in Computer Networks, Advanced Topics in Software Development, Advanced Topics In Software Verification, Machine Learning in Computer Vision

Faculty of Mathematics

University of Belgrade, Serbia

Master's degree in Informatics (GPA 9.71/10.0)

Oct 2022 - Sep 2024

Thesis title: Automatic detection and optimization of the CRC algorithm within the LLVM compiler

Some of chosen majors: Scientific Computing, Cryptography, Software Verification, Machine Learning

Faculty of Mathematics

University of Belgrade, Serbia

Bachelor's degree in Computer Science (GPA 9.25/10.0)

Oct 2018 - Sep 2022

Some of mandatory majors: Operating Systems, Computer Architecture, Database Programming, Computer Networks, Artificial Intelligence

Projects

Randomized Greedy Algorithms

Apr 2023 - Sept 2023

https://github.com/PosteruOle/randomized_greedy_algorithm

Implemented several graph clustering algorithms inspired by academic research, developed as part of a Scientific Computing course.

Deep Learning Facial Expression Recognition

June 2023 - Sept 2023

https://github.com/PosteruOle/facial_expression_recognition

Built and trained Convolutional Neural Networks (CNNs) and other machine learning models to classify facial expressions from a dataset of human face images.

Verification of a Compound Unit project

June 2023 - Aug 2023

<https://github.com/MATF-Software-Verification/2023-Analysis-CompoundUnits>

Applied static and dynamic software verification tools to an existing codebase, identifying bugs and performance bottlenecks. Delivered a detailed report analyzing the results.

Various interpreters

https://github.com/PosteruOle/various_interpreters

Developed multiple interpreters for the Translation of Programming Languages course, capable of executing custom commands for sets, graphs, matrices, stacks, and queues. Some interpreters construct and traverse Abstract Syntax Trees (ASTs) to evaluate program instructions.

1 Languages and Frameworks 2 Miscellaneous

- **Programming languages** : Python, Java, C/C++, C#, Go, Haskell, SQL
- **Frameworks** : Tensorflow, QtCreator, .NET
- **Editors and IDEs** : Jupyter Notebook, IntelliJ IDEA, Visual Studio
- **Operating systems** : Windows, Linux
- **Interests** : Operating Systems, Computer Networks, Machine learning, Computer vision
- Scholarship for Higly Gifted Students issued by the Ministry of Education (2016-2023)
- Student Scholarship issued by the Municipality of Ub
- Member of Mensa Serbia (2016-2023)
- Participated in the Serbian National Mathematics Competition
- Volunteer at Serbia Open Tennis Tournament 2021

Language proficiencies

English	Professional working proficiency
Serbian	Native or bilingual proficiency