

# Vyacheslav Tamarin

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## Skills

Soft skills Responsibility, attentiveness, time management  
Languages Python, Java, Kotlin, JavaScript, Go, C++, SQL  
Tools Django, FastAPI, pytest, Unittest, NumPy, Bootstrap, Selenium

## Professional Experience

Mar 2023– Sep 2024 **Static analysis for JavaScript-based languages,**  
*junior developer*, Russian Research Center  
○ Abstract interpretation, taint analysis  
○ Kotlin, JavaScript, ArkTS  
Sep 2022– Feb 2023 **Automated unit test generation for Python language,**  
*annual internship*, Russian Research Center,  
<https://www.utbot.org/python>  
○ Developed fuzzing of function arguments for basic types  
○ Refactored project structure for multi language test generation  
○ Developed new python object serialization and deserialization algorithm  
○ Kotlin, Python, Mypy, UnitTestBot  
Jul 2021– May 2022 **Web interface for electives selection,**  
*educational practice*, SPBU, Mathematics and Computer Science,  
[https://github.com/tamarinvs19/choosing\\_electives](https://github.com/tamarinvs19/choosing_electives)  
○ Web interface and backend for electives selection designed to help students and administration  
○ Developed portable web-interface for choosing electives  
○ Developed expandable elective storage architecture and management system  
○ Python, Django, JavaScript, jQuery, SortableJS, Bootstrap, PostgreSQL

## Education

2019–2023 **St. Petersburg State University, Mathematics and Computer Science,** Modern Software Engineering,  
Bachelor

## Achievements

2023 **Speaker at the PiterPy conference,** *To infer types from Python: problems of Python code analysis*  
2023 **SBFT Tool Competition 2024,** *Python Test Case Generation Track*, 2th place  
2019 **Winner of the 38th All-Russian conference «School computer science and problems of sustainable development»**  
2019 **Top 20 out of 65 participants,** Saint Petersburg Olympiad in Mathematics  
2019 **Top 15 out of 40 participants,** Russian Olympiad in Mathematics, regional stage  
2019 **Top 55 out of 173 participants,** Russian Olympiad in Computer Science, regional stage

## Publishing

○ UTBot Python at the SBFT Tool Competition 2024. <https://dl.acm.org/doi/10.1145/3643659.3643934>  
○ Linux keyboard. Settings. <https://habr.com/ru/post/486872/>  
○ Merge in Python. Time test. <https://habr.com/ru/post/510970/>  
○ SAUNet: Shape Attentive U-Net for Interpretable Medical Image Segmentation. (Article review)  
<https://habr.com/ru/post/666478/>