

Vladimir Vuksanović

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Experience

HTEC - Embedded Software Engineer, Team Lead Jul 2024–present
Contributed multiple features and bugfixes to the LLVM project. Managed a small team that worked on different tooling and compiler related tasks for a client. Held technical interviews for embedded positions.

SYRMIA - Junior Software Engineer, Compilers Nov 2022–Jun 2024
Worked on different tasks related the LLVM compiler infrastructure including writing a clang-based static analysis tool and optimizing backends for proprietary targets. Onboarded and mentored new interns.

SYRMIA - Software Engineer Intern, System Software Jul 2022–Oct 2024
Wrote my masters thesis titled “Improving the LLVM compiler infrastructure by saving source code locations when debugging outlined code” which involved modifying the outliner optimization pass, compiler backend and LLDB.

Education

Faculty of Mathematics, University of Belgrade Belgrade, Serbia
Master studies, Informatics, GPA: 10.00/10.00 2021–2023

Faculty of Mathematics, University of Belgrade Belgrade, Serbia
Undergraduate studies, Informatics, GPA: 9.88/10.00 2017–2021

Skills

- **Programming:** C/C++, Python, Java, TypeScript
- **Tools/Technologies:** Git, Docker, QEMU, gdb, perf
- **Languages:** Fluent in Serbian and English

Interests

- Systems Programming, Compilers, Drivers
- Hardware: Arduino, Raspberry Pi, ESP32
- Computer Graphics, Game Development

Projects

Dagger (contributor) 2021
Modern game engine and game made for educational purposes
C++ OpenGL GLFW EnTT ImGui ASIO Meson

Circa2020 2020
Tool for designing and simulating logic circuits
C++ Qt CMake Catch2

Arduino Projects 2019
A collection of Arduino tutorials that demonstrate the usage of various sensors and components
Hardware Arduino Python

Portal 2018
Rudimentary clone of Valve's Portal game created from scratch
Game C OpenGL freeGLUT Makefile

Automatic Translation 2021
Language translation using a sequence-to-sequence LSTM neural network
Machine Learning Python TensorFlow Jupyter-Notebook

For a more detailed list of projects visit <https://vladimirv99.github.io/>