

ĐORĐE MILANOVIĆ

MULTI-DISCIPLINARY SOFTWARE ENGINEER

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Profile

Enthusiastic software engineer with extensive self-taught experience in diverse programming languages and technologies, eager to tackle challenging projects and pursue ongoing learning opportunities.

Native Serbian language speaker with advanced proficiency in English language, enabling effective communication in diverse settings.

I thrive in collaborative environments and enjoy socializing. Outside of work, my favorite hobbies include hiking, skiing, and swimming.

Projects

NISKI – Verilog | C, Assembly

- RISC-V CPU (RV32IMZicsr) with supervisor mode support.
- A multi-threaded, single-process operating system that provides user programs C23 version of C library.
- An efficient buddy and slab memory allocator for kernel data structures.
- Controllers and drivers for various FPGA dev board peripherals.

MEDUCE – Go

- A data processing library designed for multi-threaded environments that utilizes a straightforward map-reduce paradigm to achieve efficient parallelization.

BANEK – Go

- Toolchain (compiler, emulator, interpreter) for custom JS-based programming language.

LINDASHARP – C#, ASP.NET | Python

- A library for communication in distributed systems using tuple-based message passing.
- An ASP.NET server for accessing tuple spaces through HTTP requests.
- Client libraries for .NET and Python.

SYSTEM SOFTWARE COURSE PROJECT – C++, FLEX, BISON

- Toolchain (assembler, linker, emulator) for RISC-based CPU.

E-BUSINESS INFRASTRUCTURE COURSE PROJECT

Python, Flask, Ethereum, Spark, Docker

- A Dockerized micro-service application for e-commerce featuring JWT multi-role authentication.
- Payments are accomplished by creating Solidity contracts on the Ethereum platform.
- Statistical calculations are efficiently processed by distributing tasks to a Spark system with multiple workers.

Education

School of Electrical Engineering, Belgrade, Serbia / 2020 - ?

- GPA: 9,90/10,00 (192/240 ECTS)
- Active participation as a student assistant in multiple courses

Awards

- Gold medal at “Elektrijada 2023.” competition in OOP
- Winner of many awards in mathematics, computer science, and physics competitions at the republic and state levels during my elementary and secondary school years.
- Participant at Junior Balkan Olympiad in Informatics 2016