

Nebojša Koturović

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O github.com/nkoturovic

in nebojsa-koturovic

₩ 10.10.1995.

■ N/A in Digital

🔼 Serbian, English

♀ Belgrade, Serbia

■ Work experience

• "Orange Cloud" - C++ Engineer, Belgrade, Serbia

 $September\ 2022\ --\ Now$

• "Tyllo" - C++ Developer, Belgrade, Serbia

September 2021 — September 2022

EDUCATION

• "Faculty of Mathematics" - Informatics - University of Belgrade, Serbia exp. 2015 — 2024

∘ **High school "Dragačevo"** - Financial technician - Lučani, Serbia 2010 — 2014

o Elementary school "Milan Blagojević" - Lučani, Serbia 2002 — 2010

☑ Programming languages

TECHNOLOGIES

C++, Go
C, Rust, Zig, Haskell
Javascript/TS, Python, Java
Lua, Groovy



Linux, Git, Bash, LLVM, SQL, Qt, OpenGL, OpenCV, CMake, Nix, Docker, Kubernetes, Pulumi, Conan, Web, HTML/CSS, NeoVim, Markdown, Gherkin, Grafana, MTEX

★ TALKS

Title: C++ dependency management with Nix

ink: https://youtu.be/Y2Aq8pMsLz4

C++ Serbia 23 Feb 2023

TEAM PROJECTS

Photowall - Web platform for sharing digital images consisted of client-side SPA written in Angular framework and secure performant C++ server. I was in charge of developing blazingly fast server-side application written in C++ that includes public REST API, a built-in framework for defining data flow, models, constraints, interacting with database and resolving permissions in a generic and reusable way built on top of boost::hana with advanced TMP techniques.

Technologies: C++, Hana, Restinio, Sqlite, JWT

Link: https://gitlab.com/matfpveb/projekti/2019-2020/11-photowall Mar 2020 - Aug 2020

Photon - Application with Qt based GUI where the user can apply a predefined set of effects to an image of choice. My role was developing rs-img library that stands as connecting bridge between the front and back end of the application, providing convenient DSL for manipulating images used by end-user. It also provides an easy and modular way for backend implementation in specific frameworks such as OpenCV or ImageMagick wrapped with PImpl idiom. Besides rs-img, I've created undo functionality, participated in and supervised Qt GUI and OpenCV backend implementation.

Technologies: C++, OpenCV, Qt

Link: https://github.com/nkoturovic/RS009-photon Dec 2019 - Jan 2020

Pluton - Minimal text-based file manager for performing basic tasks such as file creation, file deletion, navigation, etc. On this project, I was designing and implemented text-based user interface with TermOx library, expanding existing widgets with new functionality, participating in the development of core/system of file manager engine, exploring immutable data structures with Immer library and combining them with functional style patterns.

 ${\bf Technologies:} \quad {\tt C++, TermOx, Immer, Range-v3}$

Link: https://github.com/mrdakj/Pluton Mar 2018 - May 2018

. Personal projects

Ctollvm - Compiler for the subset of C programming language, which can be used to translate C source to native machine code. One of the key features is readable error messages with source code references and traces. It includes lexing, parsing, ast generation, semantical analysis, and code generation phases. It uses GNU tools flex and bison for parsing C source code, a hand-crafted class hierarchy for ast representation, and LLVM library for code generation.

Technologies: C++, Flex, Bison, LLVM

Link: https://github.com/nkoturovic/compiler-project Jul 2019 - Sep 2019

SenseFX - The program gives an immersive first-person game-like 3D virtual experience. It renders a set of rooms based on the directory structure of the user's physical drive and places him inside it. The user has the ability to move between rooms (directories) and interact with 3D objects. Everything is rendered in real-time using OpenGL library.

Technologies: C++, OpenGL

Link: https://github.com/nkoturovic/sensefx Dec 2017 - Jan 2018

♦ Soft skills

- o Communicative, approachable, and dedicated
- Positively thinking, and respectful to others
- o Creative, focused, and highly motivated

? Interests

- Artificial intelligence, computer simulations
- Web programming, backends, databases
- Volleyball, basketball and other sports

? ABOUT ME

I'm a full-time C++ developer pursuing a degree in Informatics. A true language enthusiast who loves to explore new languages and their interesting features.

As a C++ developer, I care a lot about performance, thence obsession with compile-time programming and optimizations. Linux lover, distro hopper, and free software enthusiast.

A person who enjoys the artistic aspects of software development, but more importantly, I love being surrounded by interesting people, learning new stuff, and making connections.

Programming is a true passion of mine which allows me to meet amazing people, work on interesting projects, and have a positive impact on the world.