Kacper Stąpor

Software Engineer | work@kacperstapor.email

Summary

Mainly a C++ engineer, with vast experience of different domains and fields. My expertise spans from system level programming and realtime systems to high performance computing and software optimization.

Technical Knowledge

Skill	Rating
C++	5/5
Bash	5/5
Python	4/5
SQL	4/5
Rust	3/5

Education

Bachelor - Jagiellonian University, Kraków, Poland

2012 - 2015

Computer Science, Computer Assisted Mathematics

Work Experience

Senior Software Engineer - RITS Professional Services

10.2023 - current `C++14/20` `MsSQL` `WSLv2`

- Design, gather requirements and implementation of features for quite a large backend trading system
- Refactoring of legacy parts of data acquisition points

Senior Software Engineer - Cobham SATCOM

02.2022 - 09.2023 `C++17` `Redis` `Python3` `Yocto` `Embedded Ubuntu`

- Upgrade of a legacy product due to underlying hardware components end of life
- Upgraded build system to be yocto instead of just make files, C++03 upgraded to C++17, refactored C layers
- All of the inhouse produced solutions where changed to be 3rd party software instead (redis, systemd, iaxphone among others)
- Full rewrite of memory management layer, synchronisation layer, data structures, making sure some of the data-driven parts of unions were actually data-driven

Senior Software Engineer - TomTom

03.2021 - 02.2022 `C++17` `Python3` `Android JNI` `MacOS` `PostgreSQL` `InfluxDB`

- First project revolved around creting a fully fledged testing strategy for the main product, which was a Navigation SDK (C++ code with JNI). This consisted of providing testing guidelines, implementation of testing frameworks, API/ABI breaks detection and implementation of Debug builds on the CI
- Second project was implementation of smoke tests for the Android/C++ SDK's
- Third project was design and implementation of a framework that was checking performance of different testing scenarios, with variants on the OS, compiler, C++ standard and SDK components versions

Senior->Lead Software Engineer - EPAM Systems, contracted work for UBS

10.2019 - 07.2021 `C++03` `OracleDB` `IBM Db2` `SunOS`

- Full implementation of new feature for a legacy system on a legacy monolith tech stack
- In-depth analysis of the technical debt of the project
- Introduction of a basic CD/CI pipeline for the project

Intern->Associate->Contributor->Senior Software Engineer - Sabre

07.2015 - 09.2019 `C++03/11/14` `OracleDB` `RedHat Linux` `Python3` `Perl`

- Work revolved around maintenance and enhancement of the pricing engine
- Successful refactoring of the exchange part of the codebase
- Prototyped with a team an MVP engine, an updated version of the original engine - divide and conquer approach of the engine resulted in quite substantial gains in response times (some of the features saw a decrease from 100ms to just 3ms)