CV

Przemysław Leśniak

Computer Science student

7 may 1994

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About me

I am passionate Computer Science student from Poland that enjoys problem solving and technical things. Currently on student exchange in Saarbruecken, Germany.

Skill

English

C++

Algorithms

Object Oriented Programming

git

Java⋆2.5 Python⋆3.0 C⋆4.0
Haskell⋆2.0 Coq⋆1.5 Assembly⋆2.0
Linux Command Line⋆3.0

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

education

since 2017 — M.Sc. — Saarland University
Computer Science, one semester student exchange

since 2016 — M.Sc. — University of Wrocław
Computer Science

2013-2016 — B.Sc. — University of Wrocław
Computer Science: 4.5/5.0
Virtual memory subsystem for mimiker operating system

experience

2017 — Google Summer of Code — Remote
Improving LLVM Backend for Chapel Compiler
The biggest acomplishments of the project was improving vectorization, which in some cases improved performance of executed code by 400%.

2016-2017 — Nokia, C++ Software Engineer — Wrocław
Improving performance of code generated by TTCN-3 compiler
Main approach to improving performance was reducing memory allocations using Object Pool technique inspired by Slab Allocator. In the end average performance was improved by 20%, in extreme cases even by 80%.

2015 — Nokia, C++ Summer Trainee — Wrocław
Parsing library project
Library design was inspired by Parsec library from Haskell language. Library was used to implement parser for TTCN-3 language and later integrate it to QtCreator to have general IDE functionality, like auto completion and jumping to function definitions.

project highlights

mimiker
Operating system being developed on university. My work involved working on virtual memory subsystem (TLB, page allocation, virtual page mapping), mutex implementation, gdb scripting, ramdisk loading, basic filesystems.

quant
Lossy Image Compression based on vector quantization. Achieves good compression ratios and image quality.

hCompiler
Compiler that compiles tiny subset of C language written in Haskell. Compiles directly to x86 assembly using syntax directed code generation. Has working recursion.

Lossy Image Compression
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other information

Hobbies: Popping, Speedcubing

Github: `https://github.com/coodie/`

CodeForces: `http://codeforces.com/profile/goovie`