Ondřej Kubánek

📱 *+420 730 945 749*
✉ *kubanek0ondrej@gmail.com*
🌐 *kubaneko.github.io*
🐦 *kubaneko*
⌗ *kubaneko*

Education

2023-now	**Master**, *Chalmers University of Technology*, Computer science – algorithms, languages and logic
2020–2023	**Bachelor**, *Charles University*, Prague, Theoretical Computer Science
Relevant Courses	Formal Mathematics and Proof Assistants, Graph Algorithms, Advanced C++, Haskell, Compiler Optimizations, Intro to Category theory, Domain theory
Grades	Weighted grade average: 1.15, (3.85 GPA)

Bachelor thesis

title	**Improving GCC loop optimisation with histogram profiling**, *Grade A*
description	Adding new histogram counter to Gcov and improving loop optimisations e.g. peeling and vectorization by having more precise information about loop iterations
supervisors	doc. Mgr. Jan Hubička, Ph.D.
result	SPEC CPU 2017 integer benchmarks improved by 1% (yearly rate of progress 2.5%)

Experience

2023-now	**Summer of Nix** Packaging NGI software in the Algae mob
2022	**Google Summer of Code** Implemented an algorithm for sorting relevant Haskell packages to help users pick the correct package and integrated the algorithm into Hackage
Organisation	Haskell.org
Project	Hackage (Haskell package archive) Presented results in an open section at Haskell Symposium 2022 (co-located with ICFP 2022) **Link**

Coding examples

Haskell	Haskell course
C++	G-machine

Programming Languages

Solid	Haskell, C, C++
Intermediate	C#, Python, Lean, Agda, Nix
Basics	SQL, Prolog

Technologies

Docker, systemd, Bash, NixOS, LaTeX, git

Languages

English	C1 - CAE